

# Manufacturers Record

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development  
of the South and Southwest as the Nation's Greatest Material Asset

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## "CIVILIZATION MUST DEFEND ITSELF."

Atlanta, Ga., May 30.

Editor Manufacturers Record:

The Manufacturers Record is especially noted for its courageous and patriotic editorials. I wish to say that in my judgment one of the very best that has ever appeared in any publication in this country is the one on your front page of this issue, May 25, "Civilization must defend itself."

I am interested in four factories. They are all "Open Shop."

None of our factories make any distinction or ask men questions as to whether they belong to unions or not. We try to treat them all with a square deal and our factories have all been quite successful and our employees are happy and contented and we have never had a strike. Our operatives are all free-men, patriotic Americans, believing absolutely in the right of individualism.

Wishing you continued and abundant success,

Geo. M. Traylor.

## FINANCING COTTON.

THE Little Rock Clearing House Association at a meeting on May 5 is reported to have decided by unanimous vote to extend a credit of \$3,000,000 to the Arkansas Cotton Growers Association to enable the members of that organization to finance the marketing of cotton next fall.

Mr. Chas. G. Henry, President of the Cotton Growers Association, is quoted in the Little Rock Gazette as saying that between \$5,000,000 and \$6,000,000 will be needed for the Association's operations next fall, but that with the \$3,000,000 furnished by Little Rock bankers there will be no difficulty in handling the balance.

## THE NATION-WIDE PROPAGANDA TO SECURE RENOMINATION OF GOVERNOR HARDING TO FEDERAL RESERVE BOARD ENDANGERS THE SAFETY OF OUR BANKING INTERESTS.

**B**USINESS men throughout the country are being solicited by mail to write to the President and to members of Congress and bring what pressure they can to bear in the interest of the reappointment to office of Governor W. P. G. Harding of the Federal Reserve Board. The campaign to create an artificial and untrue impression of a public demand for the retention of this official does not end there. It raises itself, in one form or another, at every convention of bankers, and even at commercial conventions, wherever they may meet. It generally takes the form of a resolution of endorsement and is presented in such a way and at such a time that earnest antagonism to it cannot be organized. Moreover, bankers and business men fear, in many cases, to speak boldly in meeting, so great is the menace of later coercion.

It is contended that the Federal Reserve System and honest money are being attacked and that the preservation of neither is possible unless Governor Harding is retained in office. The campaign to keep him in his seat is obviously well financed, we do not know by whom. But we imagine that the Reserve Banks could easily do this and charge to their expense account on which we think there is no check except the conscience of their officers.

In the long history of human blundering, recorded and unrecorded, students will search in vain to find the record of a high financial official who, in any country, in any century, by any test, equaled in the profundity of its disastrous consequences the record of Governor Harding. He is indicted not only by the dead and bankrupt of his own country, but the paralysis of trade the world over, which has doomed millions to anguish, may be laid in large measure, and has so been laid by great economists, to the policies that forever will be identified with the Governor Harding stewardship.

Time takes the measure of all humans. They cannot escape its just and irrevocable verdict. It writes its judgments with the ink of fact on the parchment of current events, where all who have eyes to see can read, and being written so the record stands forever and forever. It is not within the power of the President by a reappointment, or of Bourbonistic financiers through propaganda, to blot out the indelible verdict. There is no authority under the sun that can make

the sun stand still, there is no human hand that can hold back the tides and there is no human brain, no human conspiracy, so subtle and so cute as to confuse the fundamental truth and wipe out from the record of Governor Harding the spots that are all over it. His incompetency has been overmastering. His conspicuous inabilities condemn him to future obscurity, not to further honors.

What has been his program, his policy, in essence:

1. Unlimited expansion of credit and currency.
2. A sudden, sharp and unheralded reversal of this program, involving merciless and immediate deflation.

As to the first, no comment is necessary. His friends and the Reserve Board have admitted freely, over and over again, offering it in palliation of their subsequent blundering, that this policy was a grievous error. There is no need for proof. They admit that Governor Harding's conduct of the Reserve System from after the Armistice until the spring of 1920 was a bad policy, a wrong policy, a policy that was sure to bring subsequent trouble and disaster. Employed because he was supposed to be a financier, admittedly in the first great test of reconstructive finance, he misconceived, misjudged, inaccurately and inadequately assessed the situation and permitted a condition to exist and grow worse which, the Board has since admitted, ought surely to have been retarded? But moderation Governor Harding knows nothing about. He is an extremist. The greatest of inflationists, he became the greatest of deflationists.

There are two kinds of inflation. There is the inflation of pure speculation which may be recurrent in periods of easy money. The recognized cure for that is tightening of the bank rate. There is another sort of inflation, the inflation brought about by the agony of earth in the birth of a new era, the inflation of far-reaching catastrophe, operative over a long period of time, an inflation such as was brought about by the Carthaginian Wars in Rome, by the Napoleonic wars in Europe and by the last great war. For such an inflation, a tightening of the money rate unduly is not the cure. It is, instead, as poison to the organs of civilization.

Only a colossal blunder could have failed to differentiate between the two. Governor Harding did so fail. His big ears only heard that in Iowa there was speculation in land. He knew no more than that cotton was bringing more than it used to bring when he banked in Birmingham. "Our present task," said a bulletin of the Richmond Reserve Bank, which is subservient to Governor Harding, "is to proceed with the deflation of credits as rapidly and as systematically as possible."

But Congress, in its wisdom, had set up an agency to prevent just the catastrophe which Governor Harding had decided to bring about. The War Finance Corporation was in operation and a debacle in prices could not be engineered in its entirety by the Federal Reserve System if the Corporation continued to function. Accordingly, Governor Harding's alter ego, Secretary Houston, we believe illegally and we know disastrously, unceremoniously, kicked the Corporation and an Act of Congress out of the back door at one and the same time. The Directors of the Corporation, some of them

unwillingly and coerced by Secretary Houston, on May 10, 1920, adopted this resolution:

"Resolved, that at the request of the Secretary of the Treasury and pending further action by this Board, the making by the corporation of further advances for export purposes, except pursuant to existing commitments, be suspended."

So sank the knife into the bowels of agriculture and national prosperity. Here was the Governor Harding policy out in the open, and it was a policy of death.

We need not recount here the general cataclysm that resulted. We cannot even discuss how it was that the great producing elements were kept in ignorance of the attack about to be made on them while certain better-informed financial interests made ready for the rainy day. Let readers look back for themselves to the newspaper statements made by Governor Harding when he went to New York in the memorable days of November, 1919, and compare them with his subsequent opposite policy. Some men have thought that he was a victim lured into the trap.

Nor can we here dwell on the multitude of incidents which in the aggregate made clear the Governor Harding policy and showed, as if pictured in the skies, the enormity of his economic blundering. Our purpose is rather to show how later events have completely demonstrated his incompetency.

In March, 1921, Secretary Houston and Governor Harding were in control of our financial policy. The War Finance Corporation, although ordered by Congress, over a Presidential veto, to resume its functions, was inactive. Liberty bonds were down in the eighties. Credit was almost not to be had. Commodity prices had dropped until all agriculture was panic-stricken. The mother herds were being killed on the plains. The South was planting what was destined to be one of the smallest crops of cotton in recent years. Bankruptcies were habitual. Not in a century had the people of the nation been so low in funds, so low in spirit, so desperate, so hopeless. Hundreds of banks were being kept open only by subterfuge. Secret creditors' committees were likewise struggling to keep great corporations alive. And on top of this junk pile of shivering industry rested the two giant icebergs, Houston and Governor Harding, still talking about frozen credits, which they themselves had frozen, and telling the producers of the United States that they ought to thank God they were able to produce at a loss and thus bring prices down in the United States.

Economic conditions were not strangling the world, bad as they were. The world, in fact, was in grave need. It could have consumed more than America could have produced. The strangulation was artificial. It was arbitrary policy that was strangling prosperity. It was artificial policy that was costing this nation more than the war itself had cost. It was incompetence that had the United States by the throat—colossal incompetence. So we shouted from the house-tops week by week. So, unhesitatingly we cried, a revision of policy would demonstrate.

March 4 witnessed the exit of Houston. Obscurity swallowed him into a great corporation doubtless with a big salary. Within ninety days, a new Administration, slowly

feeling its way because the eggs had been scrambled a long time and an extremely delicate situation had been created by Governor Harding's inability, else it would have acted sooner, was telling the country not to worry. The most important of its achievements, the new Administration said in June, had been to correct the ruinous rate program of the Federal Reserve Board. Concessions had been forced, more would be forced. It had been discovered, forsooth that of all frozen credits the largest was that of the Federal Reserve System itself, the greatest gold hoarder of history, which was piling its metal assets in unheard-of quantities in dark vaults and refusing to permit its prodigious bases for credit to the employed. A new policy was to be followed, a policy in direct antagonism to that enforced by Governor Harding, the country was advised. Men of intelligence had no doubt what would follow.

Let any man compare conditions today with what they were when Houston and Governor Harding dictated financial policy. We say in all sincerity that there is no basic condition today warranting better times and better feeling now than there was in the period of greatest depression except this one thing—financial policy. The sources of credit had been dammed up by Governor Harding. Secretary Mellon and Comptroller Crissinger smote the rock of financial reserves and abundant streams of credit poured forth. Liberty bonds back to par! Cotton back on a paying basis! Wheat again remunerative! The automobile and steel industries again alive! Exchange up! The national morale in process of re-establishment!

No wonder Governor Harding says that Secretary Mellon is one of the greatest Secretaries of the Treasury this nation has ever known. But in what way has this greatness been most significantly manifested? Why, by his reversal of Governor Harding's policies. It is as if Governor Harding were himself testifying to his own incompetence.

Do not the times, in unanimous accord, cry out that the Jonah of finance he permitted to retire into private life?

Who prostituted the national honor and put it in the position of repudiating its pledges in regard to Liberty bonds? Who poured filth on their integrity and drove them out of banks?

Who practiced usury and utilized the infamous graduated interest rate to ruin country banks?

Who, according to the Supreme Court of the United States, waged war illegally on State banks?

Who permitted great bank palaces to be erected out of enormous profits taken from stricken industry?

Who brought the Federal Reserve System into disrepute and made necessary a fight by all good men and true against its manifold exactions?

Between the economic concepts of Governor Harding and men such as President Harding and Secretary Mellon there is a great gulf. The former stand for hard times. He is the doctrine of cheapness. The snarl of whips on sweating backs for profits' sake, a cheap race ground down for cheap production, a belief that only from the poverty of others can the few gain riches and ease—somehow, so do we conceive

the Governor Harding concept of fundamentally good conditions.

That concept, by a majority of seven millions, the American people have voted they will not endure. "A cheap coat makes a cheap man," cried President Harrison, and ever since it has been Republican doctrine. It is, therefore, almost in the nature of an insult for any set of men, be they financiers or not, to ask that President Harding retain in office a man who in his elements is so utterly out of tune with everything that the President himself stands for and believes. The horsemen of the night do not work all in the day. Nor is it fair, on other grounds, that President Harding should harness his administration to a liability of such ponderous size as Governor Harding. In America, justly, it is not the custom to reward failure. Our laurels go to those who have earned them.

Bourbonism never learns and never forgets. The way to save the valuable features of the Federal Reserve System is not to retain in office the one man who more than all others is responsible for the disrepute into which the System fell. That would be but to nurse discontent and to force the whole banking question into a political campaign. If it ever gets there, there can be but one answer. In votes the banking element is not formidable. Only a fool would willingly toss a great technical question of this sort into the political arena. The way to save what is good in the system is to get what is bad out of the System. And the worst thing in the System, recent events have shown is the Governor of it. He has been the trouble-maker and Disaster's chief henchman.

If, as Governor Harding has by intimation testified, Secretary Mellon is so incomparably better than was Secretary Houston, is it not reasonable to suppose that President Harding can also select a Governor of the Federal Reserve Board who will be equally superior to Governor Harding? We think so.

It is not that we are worried about Governor Harding remaining in office. If nominated, he could not by any possibility be confirmed in the Senate. But we do think it is imperative in the national interest since the Harding Administration has so violently repudiated the previous policy of the Federal Reserve Board that it be consistent and repudiate also the author of and apologist for that policy.

## A REBIRTH OF SOUTHERN ENERGY AND ENTHUSIASM NEEDED.

THE MANUFACTURERS RECORD is in receipt of a letter from a Birmingham lady in which she asks that a copy of the Blue Book of Southern Progress be sent to a woman friend in New York, who on a recent visit to Birmingham had been amazed at the progress of that city and of other parts of the South. This New York woman, who ranks high in the business world and is an expert in certain lines of textile work, was wholly unacquainted with the magnitude of Birmingham's development or with other facts which she learned about on her recent trip to the South, the first she had ever made. In reply to this regret of the



Birmingham lady as to the lack of knowledge of the South on the part of her New York friend we replied that the South was wholly to blame; for this was but a typical case and we charged the Southern people with the responsibility for this condition of affairs.

Southern people often complain that the South is misunderstood and at times misrepresented; that its resources are not realized and that its progress is not comprehended by people of other sections. They have no right to be surprised at the lack of knowledge of the South by others, for there is an almost unbelievable lack of knowledge on the part of Southern people of their own section. This point is illustrated in a letter from Mr. Thos. L. Ferguson, Hattiesburg, Miss., in which, referring to the Blue Book, he said:

"I bought several copies of the Blue Book and placed it in the hands of some of the leading educators of this section, but somehow I haven't been able to get them to take the interest in it I thought the merits of the book justified. I believe that what Colonel Bob Toombs said that 'the South is the finest country in the world' is true, and we older people have neglected our duty to the rising generation by not putting the facts before the school children of the country, because the books are mostly made by biased bookmakers north of the Mason and Dixon line."

Mr. Ferguson's statement of the case is correct. The people of the South have failed to do their duty by themselves, by their children and by their country. Broadly speaking, the South does not know itself and makes no serious effort to force other people to know this section or its history. Southern schools do not teach the full truth in regard to the history and the progress and the resources of the South. Southern business men, Southern educators and Southern women, while often complaining about the lack of understanding of this section on the part of the people of other sections, do not make any move toward acquainting the rising generation of the South with what this section has done and what it has on which to base future development. Naturally, therefore, they do not make any adequate effort to acquaint people of other sections with these facts.

Southern schools do not teach the most important facts in regard to the economic history of the old South as they should do. With rare exceptions Southern educators are themselves not fully posted about the economic side of Southern life, past or present. Mr. Ferguson's statement that some leading educators in his section did not take the expected interest in the facts presented in the Blue Book of Southern Progress is merely indicative of the spirit of such educators and of the spirit that is abroad throughout the South. Until the South wakes up, until there is a rebirth of its people into a new conception of their responsibility to their children, to their section and to their country, and until this new birth makes them willing to spend brain power and time and money in educating the South on these points as to itself we shall not have a full development of the latent potentialities in Southern people and in Southern resources.

The great burst of activity in the South in the '80's and the early '90's was largely due to the superb, heroic work of the men of that day, who coming out of the travail and sorrow and suffering of the war and of reconstruction put forth energy and ambition never surpassed in human history, to stir every latent power in the South and to make the country at large know the South. Southern speakers of surpassing ability carried the message of the South into the North and West; Southern newspapers concentrated their efforts upon the material upbuilding of their section rather than upon the sensationalism of the hour, to a greater extent than most of them have done ever since. Southern developing influences, railroads and kindred interests carried the message of the South into almost every hamlet of the North and West, and by untir-

ing work brought hundreds of millions of dollars into the South and thousands and tens of thousands of people of the North and West into the South that they might study for themselves its resources.

This spirit of enterprise begat enterprise; people talked of the South and of its limitless possibilities; the subject of discussion in every smoking car was the South and the wonderful advancement it was making; the subject of editorials in nearly every daily and weekly paper in the country was the story of Southern progress and Southern resources; whenever you met intelligent business men you heard of the South as the coming center of world activity.

Radiant optimism ruled the people of the South; they spent their money freely for making known Southern resources, and because they spent it freely they made it freely. The moment the South began to withhold its money from large expenditures of this kind there came the withering power of inertness. Railroads ceased to do the broad and aggressive work which had been done by railroad officials of these earlier days. It would be an unspeakable blessing to this section if the marvelous ingenuity, energy and enterprise and broadmindedness of the men who were leading in Southern railroad publicity campaigns of thirty years ago could be brought to life again and put in power on Southern railroads. They would make the dead bones rattle and breathe life into every form of activity for bringing Southern opportunities in touch with outside men and money, and of stimulating the people of the South themselves to do larger and broader things.

Not for a moment would we minimize the superb development work that is going on in the South; not for a moment would we indicate that the South is not making great progress; but we unhesitatingly say that if the people of the South had today that spirit of rampant, never-tiring activity and enterprise and liberality of expenditure which lifted the South in the '80's out of the valley of poverty and desolation and carried it forward to the hilltops of prosperity, all that is being done in the South today could easily be doubled and quadrupled. But to accomplish this there must be born again that same spirit into the whole community and not into a few men and women only. There must come the spirit of talking about the South, and this talk must be based on knowledge—and knowledge can only be gained by study and work and by working for the South.

Every commercial organization, every Kiwanis and Rotary Club, every women's club, for no one is more vitally interested in the progress of the South than are its women, should become the center of an intelligent, progressive, aggressive study of the South; of its achievements in the past and of the limitless possibilities of its future. Every college, indeed every school in the South, should imbue its scholars with a knowledge of this section, so intelligently conveyed, and driven home so deeply into the mind and heart, that the rising generation will know the South and glory in the opportunities which its development offers to every man and woman who wants to achieve anything in human advancement. When this rebirth takes place, then we shall see a revival of prosperity in the South far surpassing that of the palmiest days of the past.

#### A GOOD EXAMPLE TO FOLLOW.

MR. C. L. FORD, of Georgetown, S. C., in a letter about the Blue Book of Southern Progress writes:

"I am enclosing 50c. Kindly mail a Blue Book to Captain W. A. Black, Georgetown, S. C. After reading your Blue Book I have concluded no Southern library or home should be without one, as I consider it the most valuable book of its kind I have ever read."

We wish that every other business man in the South would



take time to study the facts presented in the "Blue Book, or the South of Yesterday, Today and Tomorrow," for we believe that a study of the facts of the past, present and probable future of the South will give inspiration to every man in this section. Indeed, there is no intelligent woman or boy in the South who could not to good advantage read of

the marvelous work which the Old South achieved prior to 1860, or what the people of the South endured during the Civil War and the reconstruction period, and what has been accomplished since as indicative of what may be achieved in the years to come by those who do their part in the utilization of the South's vast resources.

## Heavy Bond Sales South for Public Improvements.

THE par value of 124 issues of bonds sold last month in the sixteen Southern states as reported weekly in the financial news columns of the MANUFACTURERS RECORD amounted to \$29,176,400. This brings the total sale of bonds in the South for the first five months of this year to \$145,313,000 representing 727 issues.

Roads, paving and bridge bonds continue to hold first place in the value of securities sold, the total for last month being \$15,314,400, representing 46 issues, and of this amount \$8,865,000 is for road bonds sold to carry forward this class of work in North Carolina. School bond issues numbered 35 with a par value aggregating \$4,274,000; sewers, drainage and water works bonds totaled \$3,531,000, representing 20 issues. Bonds for development of various kinds and miscellaneous purposes amounted to \$6,057,000 for 23 issues.

Similarly in the total for the first five months of the year road, paving and bridge bonds are first in value aggregating \$51,864,150—the par value of 245 issues. Miscellaneous bond issues stand second numbering 137 with a par value of \$44,019,250 and \$29,651,600 is the value of 205 school bond issues sold. Sewers, drainage and water works improvements are provided for by the sale of 140 issues amounting to \$19,778,000.

### SUMMARY OF BOND ISSUES BY CLASSIFICATION AND BY STATES—NUMBER AND VALUE OF BONDS ISSUED.

		Roads.	Schools.	Sewers.	Miscellaneous.	Total.
Alabama	1	\$225,000	2	\$250,000	1	\$100,000
Arkansas	3	678,000	2	55,000	1	100,000
Florida	3	945,000	2	218,000	3	325,000
Georgia	...	...	2	125,000	...	...
Kentucky	...	...	1	50,000	...	...
Louisiana	...	...	3	270,000	1	16,000
Maryland	...	...	...	1	250,000	...
Mississippi	...	...	...	...	1	1,000,000
Missouri	4	875,000	1	15,000	2	121,000
North Carolina	12	8,865,000	7	1,375,000	5	1,035,000
Oklahoma	5	718,400	2	716,000	1	460,000
South Carolina	3	400,000	3	635,000	...	...
Tennessee	2	90,000	2	40,000	1	200,000
Texas	7	1,988,000	6	385,000	4	819,000
Virginia	...	...	2	110,000	1	200,000
<b>MAY</b>	46	\$15,314,400	35	\$4,274,000	20	\$3,531,000
<b>APRIL</b>	41	8,379,000	21	2,308,000	22	4,846,500
<b>MARCH</b>	69	11,790,500	55	6,126,600	42	4,574,000
<b>FEBRUARY</b>	32	4,392,000	41	6,376,500	27	2,587,000
<b>JANUARY</b>	57	11,988,250	53	10,476,500	29	4,239,500
<b>TOTALS</b>	245	\$51,864,150	205	\$29,651,600	140	\$19,778,000
	137	\$44,019,250	727	\$145,313,000		

## GERMANY TELLS AMERICA HOW TO SAVE ITSELF FROM RUIN.

MAX WARBURG, one of Germany's leading financial authorities and a brother of Paul Warburg of New York, according to a despatch from Hamburg to the *Philadelphia Ledger*, in addressing a convention of the National League of German Industries on the proposed international loan to Germany, said:

"Germany required a loan of 10,000,000,000 gold marks or \$2,500,000,000, half of which should be applied to reparation payments and half placed in the hands of an International Consortium to be used to peg German exchange or prevent violent exchange fluctuations," and the despatch added:

"Herr Warburg believed the loan should run from twenty to thirty years, and suggested that foreign banks of issue, including the Federal Reserve Bank of the United States, should accept the bonds as a basis for credit, in order to make the issue attractive to investors. Privy Councillor Buecher, managing director of the League, supplemented Mr. Warburg, by declaring the United States was bound for ruin unless it came to the rescue of Germany and Europe, because the accumulation of all the money in the world and most of the indispensable raw materials and elements of production was an economic abnormality which was sure to revenge itself upon its possessors."

It may be quite handy for Warburg of Germany, one of its greatest banking firms for one hundred years, to have Paul Warburg, a brother, as an active adviser of the Federal Reserve Board of the United States and constantly

seeking to direct the affairs of the management of our Federal Reserve system, but somehow we have a faint suspicion that this country will not permit the Federal Reserve Board to accept German bonds as a basis for credit, even though Mr. Paul Warburg might be an active advocate of his brother's plan.

Germany will go a long way before the people of this country have sufficient faith in its honor and integrity to be willing to base the issuing of credit on its bonds. The suggestion made by Councillor Buecher following Mr. Warburg's to the effect that the United States was headed straight for ruin unless it came to the rescue of Germany and Europe, will not be taken very seriously in this country. Germany has not yet suffered one-half of the penalty which it should have suffered for its unspeakable crimes in bringing on the war and the unspeakable crimes committed by its soldiers during the war. Many a century will pass before the blood-guiltiness of the German people will have been washed out. All of the water of all of the seven seas of the earth will never efface the bloodstain and the blood-guiltiness of Germany in the sinking of the Lusitania and in other criminal acts on a par with that crime; and there is nothing in the life of the German people or in the teachings of their universities today which indicate that there has been any real change of sentiment or of heart on the part of the leaders in German life. They still look forward to world domination; they still use their powers of evil for carrying on their campaign of poisoning the wells of the

world's thought, hoping that some day Germany may be able to assert its power on the battlefield and win universal domination.

Advice from Germany as to what the United States must do to save itself from ruin will hardly command any serious attention in this country from any man of intelligence or of honor, even if under the power of international banking interests some of Germany's securities should be floated on the American people.

### WHICH DO YOU CHOOSE?

#### Prohibition means—

The protection of law and order.

The destruction of liquor controlled politics.

The supremacy of the nation's laws over the anarchists who as bootleggers, or the accomplices of the bootleggers who buy their whiskey, and thus become criminals in heart and in act, seek to destroy all laws and thus all government.

Happy homes, well fed, well clothed women and children upon whom is spent the money which formerly went into saloons whose doors were the entrance to hell here and hereafter.

Fewer accidents on railroads and in factories, more efficiency in every walk of life, and a cleaner, safer, saner, individual and national life.

If you have a soul, if you want your children to be moral and upright and if you do not wish to destroy your country and its laws, which side do you prefer?

Will you stand with the liquor interests or with the Prohibition side?

Will you stand for the moral or the immoral forces at work. You cannot be a neutral. You must be for or against the moral and economic forces of the country.

If you think these statements are in any way too strong, then send to the MANUFACTURERS RECORD for a copy of the "Prohibition Question Viewed From the Economic and Moral Standpoint."—price fifty cents—and see what hundreds of the leading manufacturers of the United States, educators and physicians say on this subject.

Mr. McAdoo says we are in the era of "shirt-tail diplomacy." Maybe he does not like it because Uncle Sam still has a shirt. The way we were going after deflation started, we'd have had nothing left but nakedness—and plenty of that.

#### The Liquor Traffic Means—

Violation of every law human and divine.

Murder, whenever it suits the bootlegger in the prosecution of his criminality.

Complete defiance of the nation's laws, and thus anarchy and the breaking down of all law.

Broken hearted starving women and children of the drunkard's family slinking away to hide their sorrow and shame from friends and neighbors.

Rotten politics that would sell a nation's honor for illgotten gains.

The bootlegger and his criminal accomplice, the buyer and the drinker of his whiskey, who are far greater criminals and are doing far more to break down government and civilization than the Bolsheviks who proclaim: "To hell with all churches and all governments, we are atheists, we are anarchists."

Accidents in factories and on railroads endangering the lives of millions of travelers, and the waste of \$2,500,000,000 a year in body and soul destroying drink.

### GO AND DO LIKEWISE.

Sole Agent  
Lehigh Portland Cement  
Kosmos Portland Cement  
Kennes Cement  
Acme Wall Plaster  
Acme Plaster Paris  
Texas Wall Plaster

THOS. J. BARRY  
Office and Warehouses  
910 Harrison St.  
Opposite Hodge Tobacco Co.  
Paducah, Ky., May 28, 1922.

Wholesale dealer in  
Lime, Cement, Hair  
Wall Coping,  
Sewer Pipe,  
etc., etc.  
Lehigh Anthracite  
Coal.

#### Editor Manufacturers Record.

Permit me to thank you for soliciting my subscription to your publication, first copy received latter part of last week and its contents read from cover to cover. How I have stayed in business 28 years without your valuable Manufacturers Record is a mystery to me, as no business firm or individual can be as successful without it as with it, and for your information will say I have saved in getting better prices on material I handle from advertisers in your publication more on one purchase than I could pay you for in ten years.

You may count on my name being on your subscription list as long as I remain in business.

With best wishes I am,

THOS. J. BARRY.

### Engineering Department of University for Closer Cooperation With Mining and Industrial Interests of Alabama.

Birmingham, Ala., June 1—[Special.]—The board of trustees of the University of Alabama at its meeting recently adopted resolutions looking to closer co-operation between the engineering department of the University and the mining interests of the State. The resolutions were as follows:

Whereas the Alabama Educational Commission of 1919 strongly urged a more intimate adaptation of the work of the college of engineering to meet the needs of the industrial district of Alabama; and whereas the engineering experiment work of the University in co-operation with the United States Bureau of Mines is largely designed to serve the ends of industry in this section; and whereas these ends may obviously be more satisfactorily attained by united effort looking to closer institutional co-operation with industry:

Therefore be it resolved:

(1) That the University invites the co-operation of the various industrial agencies of Alabama in formulating a more comprehensive program looking to an adequate and effective use of the University facilities in developing industry.

(2) That, with a view to accomplishing that end, the university proposes the organization of an advisory committee of representative men of industry whose co-operation will be welcomed in its effort to make a larger contribution toward the solution of the industrial problems of the State.

(3) That the personnel of this advisory committee for the ensuing year shall be as follows: Frank H. Crockard, chairman, George Gordon Crawford, Morris W. Bush, John L. Kaul and W. E. Mitchell.

(4) That in the event of any vacancy in the advisory committee hereby created, the executive committee of the board of trustees of the University is authorized to fill such vacancy.

(5) That the executive committee of the board of trustees be and is hereby empowered to take such action in the reorganization of the college of engineering as may, in its judgment, contribute to the end contemplated in these resolutions.

### Fuller's Earth Production in 1921.

The output of fuller's earth in the United States in 1921 was 105,000 short tons, valued at \$1,973,848, according to the United States Geographical Survey. The quantity decreased 18 per cent and the value 21 per cent as compared with 1920. Fuller's earth is found in many States, but in 1921 it was mined only in Alabama, Arkansas, Florida, Georgia, Massachusetts, and Texas. Florida has been the leading State in production ever since the industry was established in this country, in 1895, and in 1921 it made 54 per cent of the total output. Georgia and Texas were second and third, respectively, in output and value.

# Prohibition as an Economic and Moral Factor.

Many letters on the Prohibition question are being received by the MANUFACTURERS RECORD from those to whom our questionnaire was sent but which reached us too late for use in the pamphlet on the subject recently issued. These letters, like those published in the pamphlet entitled, "The Prohibition Question Viewed From the Economic and Moral Standpoint," are overwhelmingly in favor of Prohibition and the rigid enforcement of the Prohibition laws. Among them are the following:

## A Great Surgeon's Views.

Dr. Howard A. Kelly, Baltimore, Md., one of the foremost surgeons of the world and honored by the medical profession of the world, writing on the subject of Prohibition states:

"My daily life brings me into constant close touch with doctors from all parts of our country and Canada, and the testimony, practically universal, is, that the benefits of Prohibition are everywhere manifest even with an imperfect, often half-hearted law enforcement. I have not changed my views, therefore, than in this one particular, namely: that the events of these several years have demonstrated that the greatest criminals in our nation, the organizers and inspirers of crime, the determined foes of society and its legitimate authority, the insidious debauchers of the agents of the Department of Justice, are not the drunkards (God pity them!) nor yet the saloons—those club houses of the criminal classes and of corrupt politics. The greatest foes of our Government and its duly constituted authority are some brewers and distillers who inspire the law-violating propaganda in order to dishonor the nation that they may fill their pockets with gold.

"As touching my own profession, the best sentiment of educated physicians is against the use of liquors as a medication and sturdily against the reintroduction of light wine and beer. A respected minority sees utility in the occasional use of liquor in its practice, but many of us hold that this minor advantage, if it be such, can readily be foregone in view of the vast good to the whole nation of absolute Prohibition, and in view of the danger of the entering wedge, and of the already obvious debauchery of a large number of doctors in their abuse of the 'privilege' of prescribing liquor. It has degraded some hundreds, if not thousands of physicians to the level of bartenders.

"During our last election when I was a candidate in the Third Legislative District, I heard that there was much crookedness at the polls East of Jones' Falls. I visited forthwith the voting booths in the district reputed to be the worst in the city, and during the entire day saw but one drunken man. Thank God! Prohibition is here to stay in spite of the opposition of our often in other ways ably managed daily papers: in spite of wet conventions presided over by noble but visionless men.

"I have but one serious charge to bring in this whole matter, and that is the failure of our Church people to act more earnestly and unremittingly as Christian propagandists in this great battle for the very life of a nation. I would also indict the Christian church for not treating those who oppose us in a spirit of love, seeking to win them from forces of evil and ally them with us in place of Satan. We have treated our opponents too much as enemies, instead of loving them as brethren. We have forgotten the great new Commandment—"As I have loved you that ye also love one another. In this shall all men know that ye are my disciples if ye have love one to another. Beloved, if a man love not his brother whom he hath seen how can he love God whom he hath not seen?"

## What a Banker Says.

Jordan Philip, Banker, Hudson, N. Y., says he is decidedly opposed to the liquor traffic and that "Old Timers are having a difficult time in getting accustomed to new conditions but there is great improvement even among them."

## A Western Geologist's Experience.

Dr. A. C. Boyle, Jr., Geologist, Laramie, Wyo., says:

"I visit thousands of cities in a year. The good results of Prohibition are gratifying.

"There are at least two factors which strike at the very heart of our civilization. One is ignorance, and the other is the indulgence in drink (liquor). Too few appreciate the millions spent in education, and some care not at all to destroy this achievement, by inducing people to indulge in liquor.

"God grant that none will be so selfish, and so unmindful as to ever want to see liquor in any form brought back. Through Prohibition we have taken a step upward, and now that this height has been gained, let us never think of stepping downward."

## A Manufacturer Who Sees Only Good in Prohibition.

H. A. Carhart, President Carhart Bros. Foundry, Inc., Syracuse, N. Y., is absolutely opposed to the liquor traffic and says the country is better in every way—economically, morally and politically. "My men", he writes, "are better workmen, have better homes, and womenfolks have more comforts and men know it and admit it."

## A Pennsylvania Banker's Experience.

Edward Bailey, Banker, Harrisburg, Pa., says under Prohibition more money is saved, families are better off and men are better workmen, and the whole country is better in every way.

## How a Mississippi Town Was Revolutionized By Prohibition.

W. H. Patton, Merchant, Shubuta, Miss., states he has been in the Prohibition fight in Mississippi actively since 1879 and writing of the effects of Prohibition on his community says:

"Shubuta, Miss., was a town of less than 1000 inhabitants in the seventies with five liquor saloons, a dry goods store, and a drug store having a retail license, but no bar. Other stores sold by the gallon. The five saloons paid \$200 each as a State license (the minimum) and nothing to the town, and their receipts were \$25,000 annually. It cost the town \$900 to police the saloons. The municipal and county officers were selected in the gambling rooms of the saloons, the slate was carried into a hall and candidates nominated within a few minutes. The saloons of the State were organized and controlled the politics.

"The laboring classes were the best patrons of the saloons. I saw lawyers, doctors, painters, brick masons, shoemakers, engineers, bookkeepers, clerks, and merchants incapacitated for business much of their time. Boys, young men, and some married women were becoming drunkards in 1879. I made up my mind that by the help of God I would have Shubuta a saloonless town, and with literature, the Woman's Christian Temperance Union and half a dozen men it was accomplished in 1883. The first year after saloons closed there was one-twentieth as many gallons came in jugs; cost of the City government reduced one-half; the efficiency of all employes was increased very much; school attendance increased wonderfully; churches went from one-fourth time to full time; negroes bought land and stock, and many drunkards reclaimed. There was an average of 30 convicts on the streets and county roads, but after the saloons were outlawed we had to hire road squads. The cost of the Circuit Court was re-



duced one-half. The money that was spent in the saloons was spent on the family. Ladies could shop on Saturdays the same as any other day with the saloons gone.

"While the State had saloons the free schools got an appropriation of \$300,000 and after Prohibition \$1,250,000 annually. The saloons were driven out of all but seven counties in the State and the Legislature made it State-wide by special enactment. Mississippi was the first State to ratify the 18th Amendment. The United States flag will never again float over a saloon in this nation. No nation that would license crime for revenue has a right to claim to be a Christian nation. We should now work for World Prohibition by 1930-40."

[In many other small towns and cities in all parts of the country similar wonderful results have been wrought by Prohibition—*Editor Manufacturers Record.*]

#### **A Cotton Manufacturer Who Denounces Prohibition.**

T. C. Thompson, President Buck Creek Cotton Mills, Siluria, Ala., takes an entirely opposite view to nearly every one of the hundreds of men who testify to the good effects of Prohibition. He stands almost alone in his letter and indeed is the only one opposed to Prohibition in all these letters which came too late for publication in the pamphlet. Mr. Thompson writes:

"I have noticed that a few families have been benefited very much, but a large majority have not. I find as much or more drunkenness among my men than before Prohibition, and it seems that more crime has been committed. Bootleggers and distillers have been shot down by law-enforcement officers in cold blood and in open violation of the law, and many officers have been ambushed and murdered by the moonshiners. This condition seems to be the result of the methods of the Anti-Saloon League in getting the Prohibition laws passed by Legislative enactment instead of the referendum. The people were never allowed an opportunity to vote on the question as an issue. The method adopted was in politics called 'pussyfooting.' Therefore, many people and many of our best law-abiding men have no compunction of conscience of violating the law to get whiskey and the excessive price causes many men to go into the manufacture and illicit distilling, home-brew and vile stuff, as a rule.

"I have been compelled to discharge more men for drunkenness since Prohibition went into effect than before. My company does business in all the Southern States and I find conditions about the same. The drinking in some localities is more marked than in others. The saloon should be a thing of the past, but wine and beer should be allowed and licensed and taxed. This would to my mind kill the business of the moonshiner and bootlegger. No sensible person would pay for 'stuff' if good wine and beer could be had.

"I do not believe that our Government, State or National, will ever be able financially to suppress the traffic under the present State laws, and the Volstead Act, which is costing the country billions, is not effective. I am not proposing a remedy, but some new and modified laws should be enacted. This country will never submit to any political, religious, or so-called moral sect, enforcing its ideas on all people who differ with them. This may come, if it does and for the good of the country at large, I shall be glad. Let us join in politics, religion, and morals in a safe, sane and conservative course, fighting in the open for our Constitutional rights affording all others the same Constitutional privilege."

#### **A Birmingham Engineer Who Takes a Different View From Mr. Thompson.**

W. R. Crane, Mining Engineer, Birmingham, Ala., writes: "Under Prohibition labor has been greatly benefited. Suffering lessened, and crime reduced to a minimum. The enforcement of Prohibition must be taken out of politics which is rendering it ineffective."

#### **Effects Good—Less Drunkenness Among Workers.**

Ray Stannard Baker, Writer, Amherst, Mass., says: "In the small New England town where I live the effect has been all to the good. Very much less drunkenness here among the working class."

#### **Still Stands for Prohibition.**

A. L. Dean, President The University of Hawaii, Honolulu, Hawaii, says:

"I see no reason to change my views regarding the advantages of Prohibition. I recognize, of course, that there is a considerable expense involved in the enforcement of the laws, as has been pointed out by a recent writer in the *Atlantic Monthly*, but it seems perfectly clear that the balance is in favor of Prohibition."

#### **Good Work of Prohibition As Seen By a University Professor.**

Albert P. Mathews, Professor of Biochemistry, University of Cincinnati, Cincinnati, O., writes:

"I am more than ever opposed to the liquor traffic because of the wholly unprincipled efforts they have been making to break the Law, to undermine obedience to all laws and by a powerful propaganda to mislead the people on this subject. Their great influence in the public press was never more evident than since the passage of the Prohibition Amendment and their flagrant violation of the Law whenever the opportunity offers is sufficient to damn them in the eyes of every true American.

"As regards the effect of Prohibition, it has been very noticeable in Cincinnati and in particular the effect was marked in the first year before bootlegging had become organized. In the Cincinnati General Hospital there was a tremendous drop in the number of accidents and cases due to assault. There was a marked falling off in the venereal disease clinic. The workhouse was practically emptied and the jail had very few prisoners. Drunkenness has been almost unknown until rather recently but it is still far less prevalent than before. The effect on savings deposits has also been remarkable. I have known of several cases where for the first time the children in the family have been properly cared for. A politician in the city made the remark to a friend of mine that when the act was passed he was strongly opposed to it but that on observing its effects he was of the opinion that it was a very admirable thing. He stated that it had been his custom in the old days to buy shoes and other needed articles of clothing for poor people in his ward but that since the Prohibition Amendment he had had almost no calls for any such donations, and he attributed it to the fact that the fathers of families were now taking their wages home.

"As already stated, drunkenness, in my opinion, is far less common than it formerly was and the amount of liquor consumed, even considering the home-brew is vastly less. There has been also an improvement in the price of property in the neighborhood of buildings formerly used as saloons. A number of my friends who were keenly opposed to Prohibition have assured me that since seeing its operation they are willing to endure the deprivation which they must suffer because of its undoubted benefits to others and that if the question comes up again they will assuredly vote for Prohibition. I think this is the general opinion of the majority of thinking people. A number of acquaintances who are employers of labor have expressed themselves as unqualifiedly in favor of Prohibition. They state that Mondays are now normal days, whereas formerly they were marked by absence and very inefficient performance of duty on the part of those who were present.

"I believe that the results are more favorable than were conservatively believed probable and that if the Law were really strictly enforced and the importation of whiskey prevented, still greater benefits would follow. I notice that a

very considerable proportion of the murders, assaults and motor car accidents take place when those responsible for these things are under the influence of liquor.

"As regards the medical profession and the medicinal use of beer, wines or distilled liquors, I believe a large proportion and perhaps a majority of the physicians would be willing to give up the use of these beverages as medicinal agents. Many of the ablest physicians of my acquaintance have told me that they almost never or never prescribe them."

A Red Cross nurse who was in the service during the war tells the MANUFACTURERS RECORD that in her experience the army physicians who insisted upon whiskey for their patients, were men who drank it for their own pleasure.

#### A Washington Manufacturer Praises Good Effects.

T. S. Lippy, Manufacturer, Seattle, Wash., writes:

"Workers families are living better; savings are growing in practically all thrift institutions. Only occasionally are drunks seen on the street, bootlegging being the prime cause."

#### A New York Professor's Strong Endorsement.

Thomas M. Balliet, former professor New York University, New York City, writing from Egypt says:

"I am more strongly convinced of the importance and value of Prohibition than ever; because:

"1. It has destroyed the saloon which was a curse in our social life. A large per cent of the saloons in all our cities were places of social vice, and therefore centers of infection of diseases which invade the home and blight the lives of innocent wives and children.

"2. It has weakened and will soon destroy the liquor interests in our politics, which were among the most corrupting influences we had to contend with.

"3. The saloon was not tolerated in the 'residence' sections of our cities but was pushed into the sections where people of small means and the poor had to live and bring up their families. Prohibition has lifted this blighting curse from the homes of the poor and is making it possible for them to bring up their children in a purer moral atmosphere.

"4. It has destroyed the liquor traffic in small towns and in rural sections.

"5. The enforcement of the Law in our large cities is made difficult by business men, club men, certain professional men, and other men of similar classes, who, because they like their own beer and wine occasionally, oppose Prohibition. These men are willing that the liquor interests should corrupt our politics, that the moral atmosphere of the poorer quarters of our cities should be poisoned in order that they may have what they are pleased to call personal liberty as to the use of alcoholic liquors. This class of men have most to lose by the spirit of lawlessness which they encourage and are themselves guilty of."

#### A Woman's Viewpoint.

Charlotte Perkins Gilman, Writer and Lecturer, New York City, states that:

"Prohibition has been gradually adopted by State after State because of its proven good effects, and its Federal adoption rested on those facts.

"The increase of drinking as a matter of bravado, among those able to afford present prices does not seem to me as injurious to the community as the drinking of working people everywhere, and in especial the yearly increase of drinking among boys which was necessary to keep up the business of the saloon.

"We have still the demand of the dipsomaniac, and of those who think it smart to do what is forbidden; also the activity of the bootlegger; but we have not the tremendous push of invested millions trying to maintain and increase

the demand for their goods. As it has been wisely remarked, they cannot advertise, nor distribute freely, which certainly discourages trade."

#### Believes More Strongly Than Ever in Prohibition.

F. W. Hinitt, Minister, Indiana, Pa., in replying to the questionnaire states that the history of the opposition to the Amendment and its enforcement only increases his conviction as to its wisdom and need."

#### Great Forward Step in Civilization.

Guy Porter Benton, President of the University of the Philippines, Manila, P. I., writes:

"I am more fully persuaded than ever that the enactment of the 18th Amendment was the greatest forward step any nation has ever taken in the civilization process."

#### "Most Important Publication Ever Issued on Prohibition."

Dr. W. W. Keen, of Philadelphia, in a letter to the MANUFACTURERS RECORD referring to the pamphlet "The Prohibition Question," writes:

"I thank you for the copy of your pamphlet on Prohibition. It exactly tallies with my own address which I delivered in Paris in July, 1920, as President of the Fifth International Congress of Surgery. I think you will be interested in seeing it. You will find, in the Osler Library of the Medical-Chirurgical Faculty of Maryland, the Annals of Surgery for September, 1920, in which it is published in full.

"I was begged by some of my friends not to take this stand in France, above all places, on account of their commercial relation to wine and champagne but, as a matter of fact, I found that a number of the most prominent French surgeons were teetotalers. In addition to that, the audience applauded that portion of my address, I think, even more than they did any other part, or at least equally so."

Referring further to the pamphlet "The Prohibition Question," Dr. Keen added:

"I think you have properly characterized it on the title page as 'the most important publication ever issued in this or any other country on Prohibition.'"

The letter from Dr. Keen, one of the great surgeons of America, commending this work for Prohibition and giving the facts as to his address in Paris as President of the Fifth International Congress of Surgery, will prove interesting to those who are seeking light upon the great question before the country—the question of Prohibition viewed from all possible angles.

This batch of letters comprises all those in reply to our questionnaire which were received too late for use in the pamphlet "The Prohibition Question Viewed From the Economic and Moral Standpoint," and it is gratifying to know that only one man in the lot opposes Prohibition and that his views are directly contrary to the letters of a number of leading business men in his own State who have written us most emphatically in favor of the splendid results which have followed Prohibition.

We wish every man and woman who believes in bettering humanity would read and study the testimony of hundreds of leaders in American life in behalf of Prohibition which we have published, and distribute these facts as broadly as possible. The price of the pamphlet is 50 cents for single copies. For 50 copies or more, 40 cents each; 100 copies, 35 cents each; 100 copies or over, 30 cents each.

#### Knoxville Adding to Its Business Investments.

Knoxville, Tenn., June 3—[Special.]—During the past three months 114 new business concerns have located here. This new capital added to the increases of established firms, means that several millions of dollars in new investment has been placed. Building is active throughout the city, and general expansion is evident in practically all lines. Unemployment is fast disappearing.

# Leading Cotton Experts On World Cotton Supplies.

By J. S. WANNAMAKER, President, American Cotton Association.

For the purpose of ascertaining the views of the leading experts on the question of cotton supplies and prices, the American Cotton Association mailed out thousands of questionnaires, not to the producers but to experts in the other lines of the cotton industry, including the leading cotton authorities of the world. Herewith is a synopsis of the replies:

1. Estimate of Indicated Yield as of May 22, 1922	8,500,000 Bales
2. Estimated Consumption of American Cotton from the growing crop for next cotton year	14,000,000 Bales
3. Estimate of Untenderable Cotton now in American Stocks	1,250,000 Bales
4. In my (the expert's) judgment, a yield of American cotton from the growing crop, based upon the following estimated production, will bring:	
If 11,000,000 bales.....	35 cents per pound.
If 10,000,000 bales.....	45 cents per pound.
If 9,000,000 bales.....	60 cents per pound.
If 8,000,000 bales.....	80 cents per pound.
If 7,000,000 bales.....	90 cents per pound.
If 6,500,000 bales.....	\$1.00 per pound

Many of those making the above estimate as to indicated yield point out that they expect the Government to show an estimate 25 per cent higher. They emphasize the fact that they are satisfied the Government will overestimate the crop this season as badly as they underestimated it last season. However, they also point out the certainty of a famine in cotton supplies regardless of the possibilities of the present crop yield. While the above report, as explained, is made from questionnaires not sent to the producers but to the best experts and authorities in the various lines of the cotton industry, it might not be amiss to refer to the nearness of the correctness of the report on acreage and indicated yield issued by the American Cotton Association at this same date last year, reading as follows:

"Allowing a deduction in production this year of 12 per cent on account of the reduction of 51.17 per cent in the use of commercial fertilizers, added to the acreage reduction of 30.73 per cent, making an estimated total of 42.75 per cent, the forecast of production for 1921, as compared with the 1920 crop, would be 7,558,365 five-hundred pound bales."

The final report of the Government as to the yield of the 1921 cotton crop showed 7,952,539 five-hundred pound bales.

A bullish feature that has not been fully stressed is the Farmers Co-operative Marketing movement, controlling approximately 4,000,000 bales, the strong and forceful organization of the cotton growers under the American Cotton Association and then the Senatorial Agricultural Bloc in Washington. We cannot think that the cotton farmer will revert to his low standard of living, and in fact, we feel that the ultimate consumer would not want him to do so. The difference in price of 20 cents and 35 cents means to the farmer the difference between poverty and a fair standard of living, and this difference of 10 cents a pound would scarcely be felt by the final consumer. For instance, there is about one ounce of cotton in a pair of half hose, less than a pound of cotton in a dress shirt, about half a pound in a summer union suit, about one ounce in a "linen" collar, etc. Now the full advance of 10 cents a pound in the price of cotton would be absorbed by the manufacturer, who would advance his price slightly, but the articles would still retail at the popular prices, of say 25 cents per pair for the half hose, \$1.00 for the union suit, \$1.50 for the shirt, 15 cents for the collar and \$1.50 for the overalls (weighing about 1½ pounds per pair).

It is conceded by the best economists that it is necessary to increase the area of cultivated lands to supply adequate products for the sustenance of human life to take care of the increased population of the world each year at the rate of two and one-half acres per capita, or thirty-seven million acres each year. Yet within the last two years statistics show that

instead of this necessary increase we have a marked decrease. This is startlingly illustrated in the great agricultural producing sections of Russia.

When the War Finance Corporation was suspended in May, 1920, it had an unused revolving fund of approximately \$500,000,000, and there were pending applications for millions of dollars. I protested against its removal and the policy of deflation through restriction of credits and contraction of currency by the Federal Reserve System and pointed out that the suspension of the War Finance Corporation and the enforcement of the deflation policy would stagnate commerce, paralyze agriculture and cause our civilization to pay a fearful penalty; and would mean the absolute certainty of famine supplies in the production of staple crops, including cotton, as the world was dependent upon America for production as never before on account of the impoverished condition of a large proportion of the world and its inability to produce. Many of the leaders in finance and business, men with international reputations, in their replies to our questionnaire confirm the correctness of our position as to the cause of the shortage in cotton and other staple crops and state that no other result could be possible from the enforcement of such policies as mentioned above. Our prediction is being startlingly verified today. We are face to face with the most acute cotton famine since 1865.

The following reflects the opinion of the cotton trade concerning the carry-over:

"Before the War fluctuations were small but during the War became so great the exchange adopted the 200 point up or down in one day limit. Until a month ago fluctuations had a narrow range but now have become more violent. Figures from the Government Census Bureau reports are the most accurate obtainable. Last year's crop was 7,952,000 bales. Exports to April 30 were 4,996,853 bales. Domestic consumption for the same period was 4,449,823 bales. By adding exports and consumption, the sum shows 1,494,676 bales more than the 1921 crop, and three months yet to go. April exports were 612,659 bales. A like amount exported each month for the balance of the cotton year would be 1,837,977 bales. The total consumption and exports for April was 1,058,000 bales and is increasing, not decreasing. If it keeps up during the last three months of the cotton year, exports and domestic consumption will be 4,500,000 bales more than last year's crop. The carry-over was about 6,000,000 bales. It is possible by August that not a bale of American cotton will be left unpurchased either for export or by the mills. The first Department of Agriculture report as to 1922 condition will be published on June 2. Weather and weevil as yet are 'hand in hand.' Amateur acreage increasers and decreasers are among us. If figures don't lie weather, weevil and acreage are already outdistanced but not discounted. Possibly the answer to the question, 'Will History Repeat Itself?', will be known long before the close of business on the last day of the present cotton year, and we will have a repetition of the cotton famine of 1865."

W. Arthur Shelton, a prominent statistician and expert, well says:

"Cotton is not the only fiber that is likely to be scarce during the next eighteen months. We have pointed out that the jute crop of India was only 40 per cent of normal last season, and it is now reported that the new crop of jute and hemp is likely to be small. The flax crop is some 70 per cent of that of last year and wool production 15 per cent less than an average. The advancing prices of cotton, wool, jute, hemp, flax, and silk are indications that the general shortage of a fiber is now a price factor. Higher prices for cotton, jute, hemp, and wool seem especially likely because of a shortage of each of these and because of the relation between the price of these fibers."

At no time since the War between the States have the world's cotton supplies been more uncertain. The boll weevil now covers 90 per cent of the cotton belt. The best experts show that the largest number of live weevils on record have passed through the past winter and that the fields are being



infested as never before. The cotton farmer is loaded with an inflated debt; his credit is seriously impaired and his ability and incentive for production are both at low ebb.

The American farmers incurred losses on the production of the 1920 and 1921 crops of \$12,000,000,000, based on the cost of production and the selling price, and of this amount the Southern cotton producers have suffered losses of \$2,300,000,000. These stupendous losses are represented by unsettled obligations due bankers, merchants, manufacturers, and other lines of industry extending credits for the production of these crops. This brings this nation face to face with one of the most serious problems it has confronted within the last century—an adjustment of these inflated debts so that we can have adequate production of agricultural products.

In view of the world's steadily increasing needs for agricultural production, including cotton, a solution of this problem is a national and worldwide necessity. The unchangeable law of cause and effect and of supply and demand plainly indicates that we are facing the most acute famine of raw cotton since the War between the States, before the 1923 cotton crop can reach the market; and even before that time, the matter of sufficient supplies of raw cotton will be of more serious concern to the cotton consuming world than at any period within the last half-century.

The settlement of the German reparation is now a certainty. The same adjustment of the Russian problem is assured. This means an enormous increased demand for cotton. World leaders are concentrating their efforts upon the restoration of commerce, realizing that it is only in this way prosperity can be restored. As a result, the law of supply and demand will function. The demand is assured. What about the supplies?

The South will maintain its monopoly of cotton production which God has given it. However, a permanent higher level of prices is absolutely necessary to secure sufficient production, on account of the added cost from the stupendous losses suffered by the growers and the additional expense caused by the ravages of the boll weevil.

### **Southern Cotton Manufacturers Take Constructive Stand on Questions of Vital Importance to the Textile Industry—Series of Broad Resolutions Adopted.**

The position of Southern cotton manufacturers on the principal problems and questions which face the textile industry were strikingly set forth in a series of resolutions adopted at the recent annual meeting held in Washington. These resolutions are especially significant because they evidence the broad, constructive stand which the Southern cotton mill executives have taken on matters that are fraught with great importance to all phases of the industry, and which look to its wider development along sound lines.

On the question of cooperative marketing of raw cotton, the Association stated that in its judgment this would tend to stabilize prices through orderly distribution, and also went on record with the statement that the producers of their raw material are entitled to a fair return for their labor. The resolution bearing on this commended the cooperative idea in marketing the South's greatest crop as a step that would tend to assure an adequate supply, and at fair prices.

Another resolution authorized the President of the Association to appoint a committee to consider ways and means for bringing to the attention of its members the matter of further diversification of products, and of the finishing of them, as well as a more direct distribution of their products to the consuming trade. This resolution was in line with recommendations of President Tyson in his annual address, that the South needed more bleacheries, more dyeing establishments, more converters, more printing and merceriz-

ing plants in order to round out the completeness of the Southern textile industry.

Exception was taken to the manner in which current quotations in trade and news journals drew a distinction between Eastern and Southern made goods, particularly yarns, which it was stated carried the implication that Southern made goods are inferior to Eastern made goods of the like kind. The claim was made, that in justice to manufacturers, goods ought to be rated and priced on quality purely, regardless of the section of the country in which produced. A resolution was adopted calling attention to this discrimination and requesting trade and other journals printing such quotations to discountenance and discourage the further use of such phraseology, to the end that purchasers and the public may not be prejudiced against goods simply because of their having been made in the South, and so that all goods, whether produced in the East or the South, shall go on the market on even terms and stand or fall on their own merits.

The importance of the American dye industry was emphasized through a resolution adopted in which the association endorsed and approved the continuance of the qualified embargo on foreign dyes, and recommended to Congress the passage of the dye embargo provision as embodied in the amended Bill H. R. 7456 recently reported to the United States Senate by the Finance Committee. The preamble to this resolution stated that the American Cotton Manufacturers Association recognized the importance of the American dye industry, which has demonstrated the ability of American manufacturers to produce dyes of equal quality to those of foreign manufacture, and expressed the belief that the industry would be crushed out and destroyed by the disastrous competition that would ensue if the present qualified embargo against foreign dyes was removed; and further stated that, in their opinion, if the present attempt to create an American dye industry is frustrated, no American manufacturer would ever again have the temerity to embark in such an enterprise and the possibility of establishing an independent American dye industry would be lost for all time to come.

Other resolutions urged the Department of Agriculture and other agencies of the Government to give most serious consideration to the extermination of the boll weevil; urged the Census Bureau of the Department of Commerce to make special effort to promulgate as speedily as possible information gathered regarding the textile industry; requested Congress to provide sufficient funds to permit the Department of Agriculture to furnish adequate and timely reports on the cotton crop; commended the movement now on foot looking to the organization of a syndicate for the purpose of financing and distributing surplus Government owned cotton goods stocks; placed itself on record as being unalterably opposed to all agitation looking towards governmental interference in industry, with the belief that such interference, instead of being a help to the people at large, would work inevitably strongly to their injury, as well as to the injury of the industries themselves; urged a reduction in freight rates that would enable those living in the remoter and less densely populated sections of the country to have an opportunity more nearly equal to that which is enjoyed by the farmers and manufacturers who are nearer the great consuming centers and seaports; requested Congress to make an early revision in the present income tax law that would more equally distribute this method of taxing among a greater volume of the people, pointing out that under the present law about seventy-five per cent of the income and excess profit taxes were collected from not more than two per cent of the population; went on record opposing the soldiers' bonus; disapproved of any attempts to amend the Federal Reserve law, except after the most impartial and expert consideration of the subject on the part of men who have

full ability and experience in handling financial and business affairs; expressed its appreciation of the work which the Department of Commerce is doing through the Textile Division of the Bureau of Foreign and Domestic Commerce to stimulate export business for textile products; impressed on Congress the importance of the immediate passage of a tariff bill.

For the ensuing year the following officers were elected: President, C. E. Hutchinson, Mt. Holly, N. C.; vice-president, W. E. Beattie, Greenville, S. C.; Chairman Board of Governors, A. W. McLellan, New Orleans, La. Winston D. Adams, of Charlotte, N. C., who has been secretary and treasurer for a number of years, was re-elected.

### Increasing Exports of British Cotton Yarn and Cotton Cloth.

Manchester, May 13—[Special.]—Cotton yarns and manufactures exported from the United Kingdom during April amounted to £14,949,437, an increase of £1,560,421 as compared with 1921, but a decrease of £19,716,141 as compared with 1920. The total shipments of manufactured articles for the month were £44,336,431 a decrease of £7,682,132 on April last year, and a decrease of £44,352,484 on April 1920.

For the four months ended April shipments of cotton yarns and manufactures absorbed £60,631,756 against £74,947,278 for the similar period of 1921 and £119,508,638 for the corresponding portion of 1920. The sum of £195,920,819 represents the value of the total exports for the 4 months and the corresponding figures for the two previous years were £246,900,451 in 1921, and £321,894,749 in 1920.

Cotton piece goods exports for April amounted to 302,598,200 square yards valued at £10,947,133. The total yardage is slightly less than in the previous month but the quantity shipped to the end of April—1,197,527,900 square yards is 31 per cent higher than in the corresponding period of last year. The following markets have increased their takings, the figures in each case showing in thousands of square yards the amount of the rise, China 41,224, Switzerland 40,200, Australia 36,879, Egypt 35,019, United States of America 26,855, British South Africa 21,571, Germany 18,323, British West Africa 16,220, Netherlands 14,884, Belgium 13,838, Burmah 10,833, Argentine Republic 9938. Several decreases are recorded, the principal ones being Bengal 80,976, Roumania 10,783, Mexico 3077, Cuba 2624, Italy 2447, Peru 1162.

The total shipments of yarn during April were 21,327,800 lbs. at a value of £2,640,986. Not for a very long time has the total quantity been so large, the next best being 20,619,400 lbs. in November last. To the end of April this year the total weight was 69,797,900 lbs. an advance of 109 per cent over the corresponding period of 1921. The principal instances of increased consumption with the amount of the advance shown in thousands of lbs., are Netherlands 13,449, Bombay 7566, Germany 4999, China 4778, Switzerland 2080, Madras 1173, Bengal 1116, Argentine Republic 661, Norway 565, Belgium 594, United States of America 528, Burmah 415. Only four countries record decreases—Roumania 3349, Bulgaria 541, Turkey 491, and France 463.

### 15 Story Hotel Annex to Cost \$1,500,000.

New Orleans, La., June 2—[Special.]—A 15-story annex is to be built by the DeSoto hotel, costing about \$1,500,000. In the annex will be 60 model homes, consisting of apartments complete from kitchenette to living room, and 90 sample rooms, combining ideal commercial display with comfortable living accommodations.

### Exports of Agricultural Products Now Greatly in Excess of Pre-War Shipments.

The total value of exports of agricultural products is about the same as for last year and about twice the prewar average for the month of April, according to the Department of Commerce. The average prewar value of grain, meat, and cotton exports for the month of April was about \$59,000,000, for April, 1922, this amounted to \$102,396,698.

Domestic exports of all cereals for April, while a little less than for the month of March, amounts to over 1,000,000 tons, against a prewar average for the month of April of about 250,000 tons. Approximately half of this is made up of corn. For the past six months the exports of corn have increased while the exports of wheat have been declining. The total exports of corn for the last four months are over 85,000,000 bushels, against 38,000,000 bushels for the same period last year, and an average of 24,000,000 bushels for the 1910-14 period. This enormous increase in corn exports is in part due to relief corn sent to Russia, and in part to large purchases of corn by other countries for consumption. The relative low price of corn undoubtedly has been a big factor in this increased demand and it is probable also that the extensive advertising which corn had had, due to its use in relief work, has been an important factor. It is hoped, states the Department, that this will help to establish a new permanent outlet for the great surplus of corn in the United States.

#### Four Months Ending April.

Commodity		Average 1910-1914	1921	1922
Wheat .....	Bu.	11,317,051	72,054,489	28,115,429
Wheat Flour .....	Bbls.	3,279,553	5,264,386	4,993,973
Corn and cornmeal ..	Bu.	24,080,654	38,553,453	85,486,984
Rye and rye flour ..	Bu.	344,065	13,208,018	7,261,558
Barley and barley flour	Bu.	2,728,274	6,514,108	7,088,365
Oat and oatmeal ..	Bu.	1,729,051	2,584,527	5,849,735
Rice, whole and broken	Bu.	4,588,410	183,421,488	172,832,220
Lard .....	Lbs.	184,416,379	312,616,612	261,927,023
Bacon .....	Lbs.	60,492,397	143,017,237	103,559,185
Hams and shoulders ..	Lbs.	55,546,529	76,746,080	93,567,820
Condensed milk .....	Lbs.	5,598,630	102,293,974	90,413,872
Butter .....	Lbs.	1,673,119	4,006,028	2,634,455
Cheese .....	Lbs.	1,962,723	4,465,610	2,046,771
Sugar .....	Lbs.	19,150,607	151,281,343	795,482,027
Cottonseed oil .....	Lbs.	117,377,278	167,175,994	34,313,703

We have exported almost 5,000,000 barrels of flour since the first of January, compared with a little over 3,000,000 barrels for the prewar years for the same period. This large export was made in spite of the fact that a number of European countries in order to maintain their own milling industry have almost prohibited the importation of American flours either by embargo or tariff preferential.

The exports of meat products are showing the usual seasonal decline at this time of year, but are still considerably above prewar exports for the period and considering the general European economic situation are looked on as quite satisfactory.

Since the first of the year there has been a remarkable development in the exports of sugar amounting to almost 800,000,000 pounds the first of January, compared with 150,000,000 pounds last year, and an average prewar exports of almost 19,000,000 pounds for the same period. Europe is a long way from being self-sustaining in sugar and it is probable that continued heavy exports in this product may be expected for several months.

There has been a remarkable drop in the exports of cottonseed oil, both for the month of April and for the four-months period, due apparently to the severe competition this product is meeting in oriental oils.

### Architects Selected for \$350,000 Temple.

Schenck & Williams, Mutual Home Bldg., Dayton, Ohio, have been selected as architects for the Masonic Temple to be erected at Ashland, Ky., at a cost of approximately \$350,000. The structure will be five stories high, 100x175 feet.

## Efficiency of "Welderetts" on Half Million Dollar Contract Versus Inefficiency of Union Labor Men.

By H. M. Fitz, Minneapolis.

During the world war, many opportunities were offered to women on account of the shortage of men. In some instances it was found that the efficiency of women, in trades formerly followed by men, was higher than that of men, which made possible a reduction in manufacturing costs. The following story is not only the history of this war-time measure, which introduced more and more women into the industries; but the principle still continues in effect at this manufacturing plant, to the mutual benefit of employer and employees.

At that time there was an enormous demand for barrels, and they could not be produced fast enough in the regularly equipped barrel shops to supply the demand. An order was to be placed for 60,000 33 gallon barrels, to be made of black sheet steel, welded side seam, top and bottom heads, and galvanized.

A trial order for 1000 of these barrels had been awarded the factory to which this story refers, and said factory was not up to date, and not equipped for efficient barrel production. On this trial order the factory was to receive \$9 per barrel, which was found to cover the entire cost of production and allowed a reasonable margin of profit. But in order to secure the contract for 60,000 barrels, it was necessary that they be produced at a certain figure below \$9, the entire cost to be about \$500,000. This provision made necessary a close study of manufacturing methods, with a view to eliminating all unnecessary operations and reducing the cost of others.

The industrial engineer on the job seemingly had all the operation costs down in accordance with the best performance of the machinery and other facilities provided. There was, however, one operation which required more attention, and that was the operation of welding the side seam and top and bottom heads by oxy-hydrogen gas torches. Each barrel was tested, and any leak, no matter how small, had to be re-welded, and tested again. The time studies revealed that too much time was required for this particular operation, and that some improvement could and would have to be made in order to reduce the cost sufficiently to warrant contracting for 60,000 barrels at a lower figure.

The welding operations were performed by ten men, each of them being paid 90 cents per hour. They were producing an average of one barrel each per hour, and 80 good barrels in 8 hours was the best this crew of men would deliver. At this rate, the cost of the welding operation was 90 cents per barrel, which was entirely too high, and a limit of 55 cents per barrel was set for this operation before the contract for 60,000 barrels could be accepted. It became necessary, therefore, to find some method of reducing the cost to this maximum figure.

In the engineering department, four or five girls were employed as tracers, and one of them, Mary, was more mechanically inclined than the average girl. She could not only drive a car and replace a tire but she could and did make light repairs on the engine. When informed of the possibility of losing the large contract, Mary suggested employing girls for the welding operation, in an effort to reduce the cost. As a joke, she was told to go out into the shop and learn to weld, if she so desired. The following morning she was garbed in overalls, gloves, cap and goggles, ready for work. Calling her bluff, as the superintendent thought, he directed the foreman to show her, by allowing her to weld scrap pieces of sheet iron together, that she would get sick of it in a day or two.

On the afternoon of the second day, she asked to be put on the regular work, and she was given a barrel to weld.

It took her over three hours to weld this barrel, which contained several holes and leaks. After it had been tested and returned to her for repairs, four times, she realized how difficult it was to reweld a seam, and discovered that to be satisfactory it must be done right the first time.

Mary was not expected to return the third day, as the men welders did everything possible to discourage her, and the foreman felt he was wasting time with a woman; but she came, determined to be a welderett, and made five good barrels. On the fourth day she made six good barrels, and on the fifth day eight good barrels and the side seam of the ninth barrel. In another week this girl produced ten good barrels in 8 hours, by actual test, with neater seams than the men were producing. She was proving herself to be worth at least as much as the men. The men welders noticed this, and becoming alarmed, refused to work unless they discharged the girl, and paid the men \$1 per hour. They said nothing about producing more barrels to reduce the unit cost, and thus help secure the contract. To discharge the most efficient welder and increase the cost 10 cents per barrel would virtually mean suicide to the company.

Concession to these demands would prohibit acceptance of the barrel contract and would probably necessitate closing down the plant, throwing many others out of employment. After having all this explained to them the men would listen to no other course but demanded that either the girl be discharged or they be paid off. So the men were given their pay and disposed of.

Girls were then employed entirely as welders, and Mary was appointed floorlady and instructor at \$8 per day. Twenty good girls were secured and they required an average of five days to learn this particular operation. Before the trial order of 1000 barrels had been completed, some of the girls were making 14 barrels in 8 hours. The price set for the barrels was 52 cents each, which was 38 cents less for the welding operation than formerly, and the welderetts were entirely satisfied.

On this basis the contract for the 60,000 barrels was secured and completed in a little over seven months. Very often many of the welderetts would produce as high as 23 barrels per day, which, at 52 cents each, would net them \$11.96. After three months the 20 girls were producing 340 barrels per day, or an average for each girl of 17 per day, which meant an increase of more than 1000 per cent over the men welders. The reason for this enormous increase in efficiency is aptitude and patience, as a woman can learn an operation requiring patience quicker than the average man.

By making the change from men welders to welderetts, the time covered by the contract was reduced about 50 per cent, thus saving thousands of dollars in overhead. In token of appreciation, when the order was completed a week before the holidays, the company presented each girl with a check for \$50 as a bonus and Christmas present.

## Barge Service Between New Orleans and Pittsburgh.

New Orleans, La., June 3—[Special.]—Water transportation between New Orleans and Pittsburgh will be established this month. It is announced by John F. Lent, president of the Lent Traffic Company of Pittsburgh. Mr. Lent, who has been arranging for terminal facilities at New Orleans, said the first tow of barges in the new service will leave Pittsburgh June 20. He expects to handle 100,000 tons of freight a year between the two cities.

## To Begin Work on \$650,000 Building.

Nashville, Tenn., June 2—[Special.]—Construction work on the \$650,000 building for Caldwell & Co., will probably begin July 1. It will be 8 stories high, of fireproof construction, and modern in every respect, occupying a site 37 by 170 feet. Bids will be asked this month.



### Growing Importance of Commercial Sweet Potato Crop—South Increasing Car Lot Shipments.

With a total production of 98,660,000 bushels of sweet potatoes last year, which was several million bushels less than in 1920, shipments amounted to over 18,700 cars, or about 1000 more than the number of cars shipped the previous season. Rapid gain in improved storage facilities in recent years is said by the Agricultural Department to be responsible for this increase in sweet potato shipments.

The States leading in production of sweet potatoes ship but little of the stock produced. Georgia and Alabama, the two principal States of the past season, produced over 12,000,000 bushels each, but jointly shipped only about 1700 cars. However, many of the Southern producing districts have increased in recent seasons the quantity of sweet potatoes stored and shipped. Georgia and Tennessee, with shipments of 1100 and 1500 respectively, are now next to Maryland and Delaware as important shipping sections. Tennessee has nearly doubled its volume of shipments the past season. Alabama, Mississippi, Louisiana, North and South Carolina also increased shipments considerably during 1921-1922. In fact most of the net gain over the preceding season came from the Southern States, which produce the moist-flesh type of potato so popular in the South and which is gradually gaining favor in Northern markets.

New Jersey, Maryland, Delaware and Virginia produced only one-third as many sweet potatoes as the two foremost States, but shipped over 10,000 cars, or about five-eighths of the whole movement. The States farther South have been growing sweet potatoes mainly for local consumption, but with the improved methods of handling and storage it is predicted shipments to the North and West will increase.

### Water Power Needs and Possibilities of Southern Appalachian Region to be Discussed.

A conference to consider the general water power situation in the Southern Appalachian region and to consider its power needs and water power possibilities will be held June 20-22 at Asheville, N. C., according to Dr. Joseph Hyde Pratt, acting secretary. The meeting has been approved by the Secretary of War and the Secretary of the Interior, both of whom may attend, the engineers branch of the War Department, the Federal Power Commission and the Water Resources Division of the United States Geological Survey will also be represented.

Among the more important subjects to be discussed are the location and possibility of development of large and small water powers and their relation to the market; the location and capacity of the water powers now developed; the relation of the larger power developments to each other and how they can supplement each other; what proportion of the power used in the Southern Appalachian States is developed by water and what by steam, etc.

Among those cooperating in the plans for the conference are: E. Lee Trinkle, Governor of Virginia and Thos. L. Watson, state geologist; Joseph Hyde Pratt, Director, North Carolina Geological and Economic Survey; Robt. A. Cooper, Governor of South Carolina; A. A. Taylor, Governor of Tennessee and Wilbur A. Nelson, State Geologist; Thos. W. Hardwick, Governor of Georgia and S. W. McCallie, State Geologist; and Eugene A. Smith, State Geologist of Alabama.

### Natural-Gas Gasoline Production in 1921.

The output of natural-gas gasoline in 1921 increased 23 per cent over that in 1920, but the market for natural-gas gasoline was rather unstable because of the depression in the petroleum industry, according to a preliminary statement by E. G. Sievers, of the United States Geological Survey.

Seventy-five per cent of the output was recovered at compression plants and the remainder at absorption plants.

Texas has become an active field for the natural-gas gasoline industry, with an output in 1921 that was 172 per cent greater than in 1920, and occupied second place in the list of producing States. California also increased its production, but West Virginia, which was second in rank, showed a decrease and occupied fourth place.

Unblended natural-gas gasoline produced in the United States in 1921.

State	No. of Plants	Gasoline Produced Quantity Gallons	Value
Oklahoma	304	195,960,900	\$22,509,300
Texas	68	89,749,600	11,668,400
California	77	59,483,300	10,627,600
West Virginia	204	33,557,600	9,772,100
Pennsylvania	305	19,989,600	3,303,200
Louisiana	28	15,420,300	1,830,200
Wyoming	7	14,557,600	1,599,600
Ohio	55	10,310,000	1,996,400
Illinois	89	6,358,500	919,200
Kentucky	9	4,241,900	835,000
Kansas	11	3,663,000	602,900
New York	4	306,200	34,000
Total, 1921	1,161	473,658,500	\$65,717,900
Total, 1920	1,154	384,743,922	\$71,788,122

### 20-Story Building to be Erected by Citizens National Bank of Baltimore at Cost of \$2,000,000.

Plans have been completed for a new 20-story bank and office building to be erected at the southwest corner of Light and Redwood Streets, Baltimore, by the Citizens National Bank, according to an announcement just made by Albert D. Graham, president. Work of razing the structures now occupying the site, 77 by 115 feet, will begin August 1, and it is expected that the new structure which will cost approximately \$2,000,000 will be ready for occupancy by August, 1923.

The main entrance will be on Light street, and the banking room which will be finished in marble will have a ceiling height of 43 feet, with a balcony for clerical forces. Safe deposit vaults, customers' service rooms, employees' lockers and shower baths, will be placed in the basement. The entrance to the office building will be on Redwood street, and will open into a large hallway, where six elevators serve the offices. There will be 7000 square feet of office space on each of the 19 floors.

The building will embody all the newest and best features of office building construction and design with special attention devoted to heating and ventilating. Graham, Anderson, Probst and White, of Chicago, are the architects.

### \$360,000 Apartment House Contract Awarded.

Knoxville, Tenn., May 27—[Special.]—Worsham Bros. have been awarded the contract for erection of an apartment house to cost about \$360,000, after plans by Andrew J. Thomas. The structure will be 85x125 feet and four stories high, of steel and concrete. Four automatic elevators will be installed.

### Department Store Building to Cost \$800,000.

Atlanta, Ga., June 3—[Special.]—Hentz, Reid & Adler, architects, are preparing plans for a department store building to be erected by M. Rich & Bros. Co., at a cost of approximately \$800,000. It will be 125 by 200 feet, with a wing 90 by 100 feet. Bids will be opened about September 1.

### \$1,500,000 Office Building to Go Up.

Kansas City, Mo., June 3—[Special.]—Holt, Price & Barnes, architects of this city, have been designated to prepare plans for an office building, 100 by 142 feet, to cost approximately \$1,500,000 for the Kansas City Structural Steel Co. and A. R. Jones. Bids will be received about August 1.

# THE IRON AND STEEL SITUATION

## NO CHANGE IN THE MINING SITUATION.

### Interesting Movements in Coal Shipments to Meet Strike Conditions.

Pittsburgh, June 3.—[Special.]—There has been very little abatement of the coal strike. The union miners are holding out perfectly, while nearly all the nonunion miners who originally went out are still out. There has been a little drifting back to work reported from week to week since late in April, but all told this has not increased coal production materially. In most districts the nonunion miners paid no attention to the strike. The nonunion striking was practically confined to certain districts of Western Pennsylvania and a small part of West Virginia.

Production of steel ingots in April and May, the first two months of the coal strike, was fully 6,000,000 tons, against about 4,900,000 tons in the two months just before the strike, there being an increase of 23 per cent.

To maintain and increase steel production it was necessary for steel mills and by-product coke ovens to obtain coal from unusual sources, and it was even necessary to work out some new freight rates, coal having to be moved over hauls for which no rates were in existence. Much West Virginia coal has gone to the Clairton by-product plant, near Pittsburgh, and much Kentucky coal has come to Pittsburgh proper, some of it going to Clairton. The by-product plant at Lorain is regularly shipping coke to Youngstown, so that this coke is moving the opposite of the natural direction.

Steel makers are exhibiting no uneasiness over the coal strike situation. They are buying coal, but they are particular as to their bids and are careful not to bid up the market. Connellsville steam coal is now steady at \$3.25, and this price seems to be made by the buyers rather than the sellers. Kentucky coal is \$2.85 for mine-run, making it cost a little more delivered Pittsburgh than Connellsville coal, but the quality is much better, as much of the Connellsville coal now offered is not up to the usual standard.

Yesterday the American Sheet & Tin Plate Company (Steel Corporation) opened its order books for new periods, at prices previously ruling, \$4.75 for tin plate, 2.40c for blue annealed sheets, 3.15c for black sheets, 4.15c for galvanized and 4.50c for automobile sheets. In tin plate the delivery period covered is the second half of the year with manufacturing consumers and the third quarter with jobbers, according to the usual practice, but in sheets the unprecedented action is taken of opening order books for the month of July only, instead of for the whole quarter.

The Steel Corporation continues to quote nails at \$2.40 while about the middle of April all independents advanced to \$2.50, and yet they have been able to book some business, chiefly for prompt shipment.

The Steel Corporation is usually indisposed to explain or comment upon its prices, preferring to let its actions speak, but it is easy to see that the corporation management has had opportunities to advance prices which it has not embraced, and that it has done so because this would, indirectly, be taking advantage of the coal strike to raise prices, whereas the operators are engaged in an effort to reduce the cost of union mined coal. The corporation did advance bars, shapes and plates, to 1.60c, but these lines had been selling far below actual cost of production.

The steel market as a whole has grown still quieter. There is practically an even break between sellers and buyers, the mills being well sold up while buyers are well covered, except for new wants arising, in freight car orders, structural steel jobs, etc. Things are likely to run along quietly and smoothly for the next couple of months, while August should bring

developments showing what kind of a steel market there will be for the autumn.

Pig iron remains altogether stagnant, the market standing at \$25 for Bessemer and basic and \$24 for foundry, f. o. b. valley furnaces. Consumers do not seem to be altogether as busy just now as it was expected a few weeks ago they would be, particularly the iron foundries. Stocks are being drawn upon, as it is recognized that when coke becomes less scarce there will be a readjustment in pig iron prices.

## Increasing Activity in Southern Iron and Steel Interests.

Indicative of improvements in the iron and steel interests of the South, the Birmingham correspondent of the MANUFACTURERS RECORD, wires as follows:

"Alabama By-Products Corporation, Morris Bush, President, announces contract let to Koppers Company, Pittsburgh, for 25 more ovens to plant at Tarrant City, four miles from Birmingham. New work to be finished in six months. Steel making record was made at Ensley plant of Tennessee Coal, Iron and Railroad Company in May, 99,005 tons steel produced."

## Pig Iron Make Increasing—Also Sales.

Birmingham, Ala., June 5—[Special.]—With the pig iron make greatly increased as compared to a few weeks ago, sales are in greater quantity each week. In other words, the tonnage being disposed of in the Birmingham district, is greater than that produced, which means there will be considerable iron to be delivered in the future. The last month of the first half of the year is now on and sales aggregate well on the probable make of the third quarter with a few lots sold for fourth quarter delivery. The Sloss-Sheffield Steel & Iron Company now has five out of seven blast furnaces in operation, two iron-makers being started up during the past week, one of the city furnaces, in Birmingham, and the other the Philadelphia furnace at Florence, on the Tennessee river. The Woodward Iron Company has four out of five furnaces going, the Republic two out of three, Alabama, Gulf States Steel Company one each, and Tennessee Coal, Iron & Railroad Company seven and two others about to resume. The Central Coal & Iron Company will lose but little time in repairing its blast furnace at Holt, Tulcaloosa county, and the Shelby Iron Company will push the repairing of its Shelby furnace to take up charcoal iron making as quickly as possible. The surplus iron on furnace yards in this district is being worked down and the estimates on the first of the month showed there was not much iron to be given consideration and this could not be depended on if there should be further impetus in the market.

The quotations of pig iron in this territory are on a firm \$18.50 per ton, No. 2 foundry, low base, with \$19 being asked and sales being made at that price. The indications are that the furnace interests are not to hold to the \$18.50 per ton base very long, the higher price being considered the most logical under the circumstances. Local consumption is good and information is to the effect that radiator, cast iron pipe, soil pipe and other industries are melting pig iron steadily in many instances to the capacity of the plants. Railroads report much tonnage being handled.

The coal market is looking up considerably as some business is being felt as a consequence of the strike in the bituminous fields. Many of the operations in this state are now on a five and six days run and the aggregate tonnage is beginning to mount. Smaller operators are receiving inquiries as to fuel and in a few instances business is being accepted. The railroads and other large consumers who have been making their contracts during the summer for

the following twelve months, have been completing negotiations. The Seaboard Air Line railroad, for instance, made contracts for the coming 12 months for 600,000 tons of coal, 100,000 tons more than for the past 12 months. Other railroads and large consumers increased their tonnages and belief is expressed that the needs for the next 12 months will exceed those of the past year.

Local consumption of coal and coke, too, is on the increase, several of the industries either putting on more speed or new works being started up. The coke demand is improving and the make is being given attention. The Tennessee Coal, Iron & Railroad Company has all of its by-product coke ovens at Fairfield in operation now and the Woodward Iron Company is pushing repair work on a few of its ovens at Woodward so that in the near future this entire plant can also be placed in commission. The Alabama Company has ignited all of the bee-hive ovens at Brookwood, in Tuscaloosa county, which will add some tonnage to the daily production.

The scrap iron and steel market is getting in better shape and there is a little better demand for several of the products on the list. Inquiries have been received from outside of the territory. Freight rates have kept within certain bounds the old material shipments from Birmingham. Other districts have been in need of scrap, the kind which was in abundance in this district, but the transportation costs made it impracticable to ship. Furnace interests are still using heavy melting steel in their daily operations. The Gulf States Steel Company, one of the larger of the melting steel consumers, has three open hearth furnaces in operation with others being made ready. However, not much buying of the melting steel has been done, a healthy stock being on hand.

Railroad spikes are now being made in the Birmingham district. While rail, steel tie plates and other railroad appurtenances have been produced here for some time and in quantity, it has not been until this late day that the Vulcan Rivet Company, an industry at Tarrant City, near Birmingham, and consuming gas from the Alabama By-Products Company by-product coke oven plant, has put in machinery and started the manufacture of spikes. It is understood there is a good demand for the product and that the plant will be kept busy for some little time. The railroads are asking for delivery of steel rail and the Tennessee Coal, Iron & Railroad Company has this department of the steel mills at Ensley going day and night, with a weekly production around 9000 tons.

Ground is being broken and material being brought in for the \$1,000,000 merchant mill to be built at the Fairfield Works by the Tennessee Coal, Iron & Railroad Company. Prospects are that construction will take several months.

The plant of the Virginia Bridge & Iron Company at East Birmingham, former Birmingham Steel Corporation, will shortly be at work on bridge and other structural contracts, the rehabilitation of the plant being well in hand and the labor being urged to steady activity in order that operation may begin soon.

Pig iron and iron steel scrap prices are as follows:

#### PIG IRON

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$18.50 to \$19.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$19.00 to \$19.50; iron of 2.75 to 3.25 per cent silicon, \$19.50 to \$20.00; iron of 3.25 to 3.75 per cent silicon, \$20.00 to \$20.50; iron of 3.75 to 4.25 per cent silicon, \$20.50 to \$21.00; charcoal iron, f. o. b. furnaces, \$28.00 to \$30.00.

#### OLD MATERIAL

Old steel axles .....	\$15.50 to \$16.00
Old iron axles .....	17.00 to 18.00
Old steel rails .....	12.50 to 13.00
Heavy Melting Steel .....	10.50 to 11.50
No. 1 R. R. wrought .....	12.00 to 13.00
No. 1 cast .....	16.00 to 17.00
Stove plate .....	14.00 to 15.50
Old car wheels .....	14.00 to 15.50
Old tramcar wheels .....	14.00 to 14.50
Machine shop turnings .....	6.00 to 7.00
Cast iron borings .....	6.00 to 6.50
Cast iron borings (chem.) .....	13.40 to 14.00

### New Three-Company Steel Merger Plan.

Negotiations looking to a consolidation of steel manufacturing companies which have been in progress for several weeks in New York have resulted in the announcement by Thomas L. Chadbourne, attorney, who headed the negotiations, that a plan has been adopted for a merger of the Midvale Steel & Ordnance Co., (except the armor plant) the Republic Iron & Steel Co., and the Inland Steel Co. under the ownership of the Midvale interests. The name tentatively chosen for the consolidated organizations is North American Steel Corporation.

It is stated that the combined capacity of the three companies is about 5,250,000 tons of steel ingots a year. The Midvale plants are at Coatesville and Johnstown, Pa.; the Republic plants are at Birmingham, Ala.; Youngstown, O.; Chicago, Ill.; Muncie, Ind.; and Davenport, Ia., the Chicago plant being small. The Inland plants are at Chicago. All three companies own mines of coal and of iron.

Midvale's armor and ordnance plant at Nicetown, Pa., will not be included in the combination but will be run by a separate company.

Concerning the financing it is announced that the common and the preferred shares of the three companies will be exchanged for common and preferred shares of the new company. The new common shares are to be without par value; the preferred par will be \$100 and dividends,—7 per cent cumulative,—with redemption provision of \$115 and accrued dividends. Preferred shares to the amount of \$24,000,000 will be sold.

It is intended to obtain \$20,000,000 additional cash working capital from the sale of common stock. The financing will be conducted by Kuhn, Loeb & Co., of New York.

Mr. Chadbourne also announced that negotiations to acquire other properties are still pending but that the three company merger will be formed no matter whether others are added to the combine or not.

## RAILROADS

### \$11,500,000 PURCHASES OF FREIGHT CARS.

Baltimore & Ohio and Missouri, Kansas & Texas Let Big Contracts—Other Equipment News.

Baltimore & Ohio Railroad has decided on contracts for the construction of 4000 steel hopper and gondola cars and will soon give another order for 1000 box cars, necessitating a total expenditure of more than \$6,000,000. The 4000 cars already let or about to be awarded will be built at different plants as follows: 1000 steel hopper coke cars by the Standard Steel Car Co., at their Pittsburgh district plants; 1000 steel hopper cars and 1000 steel gondola cars by the Pressed Steel Car Co., at their Pittsburgh districts plants; 1000 steel gondola cars of 70 tons capacity and 46 feet long, with drop ends, by the Cambria Steel Co., Johnstown, Pa. This railroad also recently ordered \$1,200,000 of passenger cars, making a total cost of more than \$7,200,000 for equipment ordered this spring. Besides, it gave an order last fall for 2000 freight cars, most of which have now been received from the builders.

Missouri, Kansas & Texas Lines have awarded contracts to purchase 2500 freight cars and 30 steel passenger cars at a total cost of about \$5,500,000. The passenger cars, 200 refrigerator cars and 1500 box cars will be built by the American Car & Foundry Co.; 300 flat cars by the General



American Car Co., and 500 automobile cars by the Mt. Vernon Car & Mfg. Co.

New Orleans Railway & Light Co. has awarded contracts for construction of 100 new street railway cars to cost about \$1,200,000. The Perley A. Thomas Car Works, High Point, N. C., will build 25 of them while the rest will be built by the J. G. Brill Co., Philadelphia.

Seaboard Air Line has ordered 900 ventilated box cars of 40 tons capacity, with steel underframes from the Pressed Steel Car Co., also 100 phosphate cars from the Magor Car Co., and 10 dining cars, from the Pullman Company.

Norfolk Southern Railroad has ordered 5 consolidation type locomotives from the Baldwin Locomotive Works.

Kansas City Southern Railroad is reported about to purchase 1000 box cars of 40 tons capacity.

St. Louis-San Francisco Railroad has ordered 8 passenger cars and 6 chair cars all of steel construction, from the American Car & Foundry Co.

Baltimore & Ohio Railroad is reported in the market for 1000 hopper car bodies and 500 box car bodies, the former of 50 tons capacity.

### Large Increase in Net Earnings, 1921.

The income account of the Missouri, Kansas & Texas Railway lines for the year 1921 which appears in the annual report of the system, shows total operating revenue, \$63,020,975, a decrease of \$9,893,761 as compared with 1920. Operating expenses were \$50,055,784; decrease, \$19,825,094; net operating revenue, \$12,965,191; increase, \$9,931,332; total operating income, \$10,340,427; increase, \$9,412,921; gross income, \$14,806,131; increase, \$13,177,612; net income after deductions, \$5,901,349; increase, \$13,202,725.

The general balance sheet shows total assets of \$313,199,669.

C. E. Schaff, receiver, who makes the report for the information of holders of securities of the company, says that claims for final settlement have been filed with the Director General of Railroads, covering the operation of the property by the United States Railroad Administration during the period of Federal control, but final settlement has not been reached.

### International & Great Northern Reorganization.

J. & W. Seligman & Co. and Speyer & Co., of New York, have announced a reorganization plan for the International & Great Northern Railway, one of the Gould properties which has been in a receivership since August 1914. There are 1106 miles of line owned by the company connecting Galveston, Houston, Waco, Fort Worth, San Antonio and other Texas cities. Its Gulf terminals are at Galveston and Velasco respectively and the southern end of the system is at Laredo on the Rio Grande; the northern terminals are at Fort Worth and Longview, Tex., respectively. James A. Baker of Houston is receiver.

The plan has been adopted by the committee representing holders of the three year 5 per cent notes of the railway company amounting to \$11,000,000 on which principal and interest have been in default since Aug. 1, 1914, Frederick Strauss, of New York, being chairman of the committee. A syndicate is being organized to provide for cash requirements of about \$18,000,000. Deposit of securities is requested before July 1.

The plan provides for a working fund of about \$4,000,000 and for a reduction of fixed charges from \$1,597,175 a year to \$1,179,000 a year. The aggregate capitalization of the new company is to be \$44,150,000 and the stock is to be put in a voting trust for five years.

### Cut Ordered in Pay of Railroad Labor.

The United States Railroad Labor Board has ordered a reduction of five cents an hour in the pay of common laborers on railroads, also of similar laborers around terminals, shops, etc., drawbridge tenders, piledrivers, ditching and hoisting engineers, and firemen. Mechanics in maintenance of way departments not under shop crafts agreements are reduced four cents an hour; section, track and maintenance foremen, etc., three cents an hour. Mechanics' helpers not under shop crafts agreements, were reduced one cent an hour. It is estimated that about \$48,000,000 will thus be cut from the aggregate railroad payroll in the country. The reductions take effect July 1.

It is stated that the Board reached its decision before the Interstate Commerce Commission announced on May 23 the 10 per cent reduction in freight rates, but it was held back to allow completion of a decision by a minority of the Board so that both views could be issued simultaneously. Only three members dissented from the majority opinion.

### Railroad Financing.

The Carolina & Georgia Railroad Co. has been authorized by the Interstate Commerce Commission to issue \$350,000 of 6 per cent bonds, of which \$200,000 will be secured on the 25 mile line between Andrews and Hayesville, N. C., which it is proposed to extend 8 miles to Hlawassee, Ga.

The Chattanooga Railway & Light Co. has been authorized by the Tennessee Public Utilities Commission to issue \$682,000 of bonds and the Tennessee Power Co. has been authorized by the same body to issue \$700,000 of bonds.

### Branch to Big Sulphur Mines.

The Houston & Brazos Valley Railway is building a branch 13 miles long from Clute to Hoskins Mound, Tex., for the shipment of sulphur from the large deposits there recently acquired by the Freeport Sulphur Co. The estimated cost of construction is upwards of \$260,000. George C. Morris of Freeport is receiver of the road but the branch, it is stated, will not be included in the receivership proceedings.

### Freight Traffic Increasing.

Loading of revenue freight on the railroads of the United States during the week ended May 20 totaled 792,459 cars, an increase of 15,000 cars as compared with the preceding week, or an increase of more than 21,000 cars over the corresponding week of last year. Coal loadings gained nearly 2800 cars in spite of the strike. The number of idle cars was 504,702, a decrease of nearly 7500 cars as compared with the previous week.

### Texas State Railroad Now Prospering.

The Texas State Railroad, which is now operated as part of the Texas & New Orleans Railroad of the Southern Pacific System, has been rebuilt with heavy rails and the bridges on the line have also been reconstructed to handle the heavy equipment now being run over it. The line is 32 miles long from Palestine to Rusk, Tex. Both passenger and freight traffic are increasing.

### Official Titles Changed.

J. M. Mallory, Industrial Agent of the Central of Georgia Railway Co., is now General Industrial Agent for the system, this change having taken place June 1. On the same date J. F. Jackson, Agricultural Agent, was made General Agricultural Agent. Their headquarters will remain as before at Savannah, Ga.

### Railroads Net Gains Continue.

Tentative reports to the Interstate Commerce Commission from 137 of the Class 1 railroads of the country show that during April their aggregate net operating income was \$35,239,000, an increase of \$13,353,000 as compared with the same month of last year.

## GOOD ROADS AND STREETS

### Contracts Awarded for 100 Miles of Roads at a Cost of \$3,200,000.

Raleigh, N. C., June 2—[Special.]—Contracts were awarded last week by the State Highway Commission for the construction of 101 miles of hard surfaced roads and 70 miles of other types involving the expenditure of approximately \$3,200,000. More miles of road were included in this letting than have ever before been offered at one time in this country it is stated, the aggregate of construction costs was greater, the average cost per mile perhaps as low as obtained in any state, and this record will no doubt remain unbroken for some time. This brings the awards for the last four months to 313.2 miles, of which 287.98 miles are gravel, that is about three-fifths of the mileage contemplated for construction during the year. The total cost of the roads and bridges let to contract since the first of the year is \$10,107,778, or a little more than half of the State's road fund for the year's work, and this includes a part of the Federal Aid fund.

On the 19 projects a total of 155 bids was received, and while some very low prices were obtained on certain of the hard surface highways in particularly favorable locations there was a noticeable rise in the sums asked for grading and soil resurfacing; it was also observed that there were very few bids received for asphalt work. This was said to be largely because most of the contractors with suitable plants and equipment have all the work they can take of.

A complete list of the low-bidders on the various projects is to be found in the Construction News columns under Road and Street Construction.

### Big Progress This Season Expected in Road Building.

From the progress being made in Federal-aid work, the States are exerting every effort to make the present season a big one for road construction, according to the Bureau of Public Roads. In February \$3,906,000 was allotted, and in March the figure jumped to \$12,029,000.

In April plans for 225 projects were approved by the bureau, the second largest number in the history of Federal aid, and indications are that the number for May will show up even larger. In the past the peak in volume of plans approved came in June and July; the earlier occurrence this year shows that the States are making good their promise to get as much work under construction as possible to take advantage of lower prices and relieve the unemployment situation. A considerable portion of the projects for which the plans are approved should get under construction during the summer and add greatly to the 13,950 miles under construction on March 31.

On this date the number of completed projects on which final payment had been made passed the 2000 mark, involving 11,017 miles. It will be interesting to watch the growth in this figure during the 1922 season.

### Federal Aid Funds Appropriated by Congress Will Mean Ultimate Completion of 46,000 Miles of Roads.

The total of \$350,000,000 which has been appropriated by Congress as Federal aid in conjunction with State funds will ultimately result in the construction of about 46,000 miles of road, says the Bureau of Public Roads. This mileage would parallel the railroad from New York to San Francisco nearly 15 times, or, if divided equally among the States, would give nearly 1000 miles to each State.

The status of road building on April 30 was as follows: In projects entirely complete, a total of 16,375 miles; under construction, 13,950 miles in projects, averaging 62 per cent

complete. A considerable part of the latter mileage is actually complete and in service. In addition, funds have been allotted to 7511 miles, much of which will come under construction during the present season. Besides this there is still available for new projects \$60,148,000, which on the same basis as previous Federal-aid construction will result in the construction of 8200 miles of highway. In March the fund available for new projects was taken up at the rate of \$12,000,000 a month and at the rate of \$5,700,000 in April.

### \$600,000,000 for Good Roads Last Year.

The United States spent \$600,000,000 for roads in 1921, according to estimates of the Bureau of Public Roads. This sum was derived from the following sources: Local road bonds, 33 per cent; county, township, and district taxes, assessments, and appropriations, 14 per cent; State taxes and appropriations, 12 per cent; State road bonds, 7 per cent; motor vehicle license revenues, 19 per cent; Federal aid, 14 per cent; and miscellaneous sources, 1 per cent.

### Employment for 500 Men on Three Road Projects.

Oklahoma City, Okla., June 3—[Special.]—The Beekman Construction Co. has been awarded the contract for paving Edmond road. It will be of 5½ inch concrete base and a 3-inch vertical fibre brick surface. Survey has been started on the 2-mile Choctaw road, and grading is under way on the 6-mile extension of the New Castle Road.

These three projects are expected to give employment to about 500 men for some time.

## TEXTILE

### To Erect Large Cotton Spinning Mill.

A spinning mill costing approximately \$400,000 will be erected at Chattanooga, Tenn., by J. T. Lupton, Carter Lupton, J. T. Harrison and J. F. Harrison. Negotiations have been concluded for the purchase of an 850-acre site on Hixon Road on the branch line of the Cincinnati Southern R. R. The new plant will be built in units, each to contain 10,000 spindles. The completed mill will comprise 150,000 spindles. The buildings will be of mill construction and fireproof. Nearly 200 dwellings for operatives will be erected. The product of the mill will be taken by the Dixie Mercerizing Co., but it is understood that the Dixie company has no connection with the new organization.

### Textile Mill Notes.

The Wardlaw Hosiery Mills of Chattanooga, Tenn., contemplate the erection of an addition. The structure will be 1 story high, 50x120 feet, of mill construction.

Reports state that Thomas McConnell of Northampton, Mass., president of the Hawthorne Spinning Mills of Clover, S. C., and associates have purchased a 70-acre site at Clover adjoining the present plant, on which to erect a 20,000 spindle cotton mill costing approximately \$1,000,000.

The contract for furnishing 132 looms for installation in the plant of the Columbia Manufacturing Co. of Ramseur, N. C., has been awarded to the Draper Corp. of Hopedale, Mass., and for electrical equipment to the General Electric Co., Schenectady, N. Y. The company manufactures brown sheetings and has a daily capacity of 15,000 yards. J. E. Sirrine & Co. of Greenville, S. C., are the engineers.

# LUMBER AND BUILDING MATERIALS

## Price Trend of Building Material and of Building Wage Rates Since 1913.

That the years during and since the World War have witnessed radical changes in the wage rates of the building trades, and not only radical but spectacular changes in the prices of building material is stated in an article in the May Monthly Labor Review, published by the U. S. Department of Labor through the Bureau of Labor Statistics.

Wholesale prices are available month by month, but union wage rates are available only as of May 15 each year, consequently their change from month to month can not be shown. However, the building trades wage rates have experienced no such wide fluctuation as have building material prices. So far as the large cities are concerned, the union wage rate is the prevailing rate, if not the only rate, for the city.

Beginning with 1917 building material prices constantly advanced above building wage rates until 1920, in the spring of which building material as a whole reached triple the prices of 1913 and wage rates as a whole had nearly doubled the level of 1913. Beginning with the spring of 1920 and continuing through into 1921 there was a heavy fall in building material prices. Building wage rates, however, more than held their position between 1920 and 1921. The change in the carpenters' wage rate practically coincides with that of all building wage rates combined.

In the table one column shows the change in building material prices as a collective group and another shows the change in building wage rates as a whole. The section of the table applying to prices is abridged to give only the lowest, highest, and average index numbers for each year.

In presenting these figures the Bureau states that a revision back to 1913 has been made in the index number of wholesale prices of building material previously published. Prices of lumber have been obtained in more representative markets. In addition, structural steel, nails, pipe, and a number of other articles are now included under building material.

Year	All Building materials	Lumber	Brick Common	All building trades combined (May)	Brick- Carpenters (May)	Carpenters (May)
1913						
Lowest	96	95	99			
Highest	103	104	101			
Average	100	100	100	100	100	100
1914						
Lowest	88	87	99			
Highest	94	94	99			
Average	92	92	99	102	102	102
1915						
Lowest	88	87	96			
Highest	104	97	102			
Average	94	89	99	103	102	103
1916						
Lowest	110	99	101			
Highest	132	108	125			
Average	120	102	108	106	104	106
1917						
Lowest	138	113	125			
Highest	169	144	139			
Average	157	135	132	113	107	115
1918						
Lowest	161	148	149			
Highest	179	161	194			
Average	172	155	176	126	115	126
1919						
Lowest	169	158	202			
Highest	248	292	213			
Average	201	210	206	145	128	146
1920						
Lowest	204	209	245			
Highest	300	373	295			
Average	264	307	279	198	175	195
1921						
Lowest	156	151	204			
Highest	192	194	272			
Average	165	163	232	201	173	198
1922						
January	157	166	204			
February	156	165	202			
March	155	164	200			

## Says Lumber Mills Will be Kept Busy With Present Orders for Six Months Ahead.

Jacksonville, Fla., June 5—[Special.]—Increased activity in the lumber trade is the outstanding feature of the present nation wide business revival, according to E. C. Harrell, secretary of the Georgia-Florida Sawmill Association, representing several hundred operators throughout Florida, Georgia and Southern Alabama. With such promptitude has the trade come back to a new normal basis of operation that the mills of the nation now have more orders on hand than they will be able to supply in the next six months, is the opinion of Mr. Harrell.

This means, he says, that the supply is simply two months behind the demand which is steadily increasing with indications pointing to one of the greatest years in the history of the trade. Although the first industry affected by the period of depression and one of the hardest hit, it took severe losses and was the first to react under the general revival which is sweeping the country.

It is said here that the requirements of Florida alone are half of its production, estimated at 1,000,000,000 feet annually. All of the mills represented by the Georgia-Florida Saw Mill Association are operating at capacity in an endeavor to meet the demands made upon them. Orders now in the hands of the sawmill operators throughout the nation are about 25 per cent greater than production, while production is about 15 per cent behind. And the same conditions prevail in Florida. A large part of the shipments now are being made by water, but it is expected that the recent reduction in freight rates will materially stimulate the rail shipment of lumber from Florida in the next few months.

## Brick Prices Again Advance.

Spartanburg, S. C., June 3—[Special.]—Local dealers in brick have received notice from manufacturers of a 5 per cent increase in prices, following a similar increase a month ago. This is due largely to increased demand and the handicap in operations since last fall by excessive rains. Stocks have been greatly reduced and many of the manufacturers are falling behind in their orders.

Brick are selling here at about one-third the figure prevailing during the era of high prices in 1919 and 1920. Today brick of good quality are quoted at \$9.50 to \$10.50 per thousand delivered, while in 1919 the price ran to \$26 and \$28 per thousand. However, dealers do not expect brick prices ever to go back to a pre-war level, because of increased freight rates and increased costs of every item of production. While labor costs have declined, labor is said not to be as efficient now as in pre-war days.

## Big Improvement in Lumber Trade.

Beaumont, Texas, June 3—[Special.]—The domestic lumber trade in Eastern Texas and Western Louisiana has shown an increase of more than 25 per cent since April 1, according to L. L. Chipman, general manager of the Long-Bell Lumber Co., who has just returned from a trip of inspection of several of the company's mills in Louisiana, and prospects for even better improvement in the near future are in sight.

In the vicinity of Beaumont, lumber mills are operating at full time and selling far ahead of production, clearly indicating the big demand for immediate construction needs. More men are now at work in East Texas and West Louisiana mills than in 1914, although the number employed is less than during the war period when operations were at their height.



### \$500,000 Lumber Export Corporation Formed.

Memphis, Tenn., June 3—[Special.]—The Delta Export Lumber Corp. has been organized with a capital of \$500,000 to push the sale of gum lumber and veneers in overseas markets, 24 hardwood manufacturers operating 50 band saw-mills in the alluvial region of the Mississippi Valley co-operating to this end under the Webb-Pomerene act. The company will standardize grades and brands so that all export shipments of red gum products of the member mills will be of a high and uniform quality. It will thus be able to maintain better service at a smaller cost than the mills could furnish individually. A sales campaign is to be launched immediately, and foreign agents have been appointed and will get into the field at once.

Ralph L. Jurden of this city has been elected president, and will direct the work of the new company. Other officers include:—R. J. Hackney, first vice president; W. R. Satterfield, second vice president; W. B. Chapman, secretary, and W. E. Hyde, treasurer. The officers with James E. Stark, S. M. Nicklet, R. C. Stimson, E. B. Norman and Sam. Thompson, comprise the executive committee.

### Meeting for Raising Lumber Industry Standards.

The four day preliminary conference of American lumbermen last week in Washington resulted in the acceptance of the agency of the National Manufacturers' Association in securing properly appointed representatives of all groups interested in lumber production and conversion, with a view to the definite adoption of standardized nomenclature, grades, quality, markings and practices. The meeting was called by Secretary Hoover to standardize, to eliminate unnecessary varieties, and to guarantee and protect the quality and tally of lumber to the consumer.

The plans embrace no element of control or distribution of price but essentially service on behalf of the consumer in guarantees of quality and character of materials, thereby raising all standards in the industry. It is expected that the necessary investigations and discussions in the various branches will be held throughout the summer months and that a final conference may be called in the fall for creation of a definite working organization.

### High Lumber Sales Maintained.

New Orleans, La., June 1—[Special.]—Lumber sales for the week ended May 26 maintained the high level of the past 10 weeks, averaging according to reports from 129 mills of the Southern Pine Association 817,687 feet per mill. Total orders for the week reached 105,481,614. Shipments amounted to 90,978,678, an average of 705,261 feet per mill. Production of the mills reporting totaled 76,838,014.

The increase in "orders on hand" during the week amounted to 4.42 per cent. Shipments were 18.40 per cent above production. Orders were 37.28 per cent above production, and 15.94 per cent above shipments. The average unfilled orders at the end of the week amounted to 2,658,092 feet.

The summary report for the week is as follows:

	Cups	Feet
Orders on hand beginning of week.....	15,669	328,390,902
Orders received during week.....	5,033	105,481,614
Total .....	20,702	433,872,516
Shipments during the week.....	4,341	90,978,678
Orders on hand end of week.....	16,361	342,893,838

### Construction Council to Meet June 19-20.

Invitations have been issued by the temporary directing committee of the American Construction Council, through R. C. Marshall, Jr., for the first meeting to be held in Washington, June 19 and 20. The step contemplated—that of bringing together for cooperation in behalf of the industry and of the public all elements of construction activity—engineers, architects, labor in all its branches, contractors, manu-

facturers and dealers, and the financial interests—is epochal in American industry, and promises to be widely supported. Full details of the plan are set forth in a comprehensive pamphlet procurable from the temporary office of the Council at 1053 Munsey Bldg., Washington.

### \$750,000 Hospital Group Planned.

St. Joseph, Mo., June 3—[Special.]—The Missouri Methodist Hospital Association will erect a \$750,000 group of buildings after plans by Eckel & Aldrick, architects of this place. The buildings will have a bed capacity of 225, and be of modern fireproof construction.

## MECHANICAL

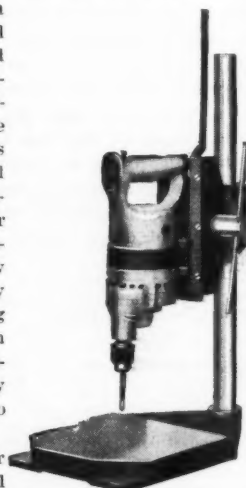
### Electric Drill With Attachments.

Starting with the idea that the "Hole Shooter," an electric portable drill, could be adapted to many other purposes than the drilling of holes, the A. H. Peterson Manufacturing Co., Milwaukee, Wis., have developed for it a number of attachments which greatly enlarge its usefulness. Practically all of these inventions are designed to meet various requirements in garages, automobile service stations, and industrial plants, and many garages, for instance, have found it possible to do work with this drill and its combinations which previously demanded separate units costing, it is observed, several times the price of it and the new attachments.

Among these inventions is a radial portable drill press stand which is illustrated here and which is remarkable for simplicity. Then there is a battery terminal opener and end bristle wire brushes of different grades and sizes that are very useful for removing carbon from cylinder heads, for burnishing, or for removing paint, varnish, etc. Besides these, are a commutator saw wheel on a flexible shaft, rotary taper files, special emery grinding wheels, and special buffers which are of great advantage in simonizing bodies as well as for ordinary buffing work. There are also other attachments.

The drill press stand is for holding the portable electric drill rigidly at any angle, vertically or horizontally. When adjusted in a perpendicular position the combination serves as a portable drill press, but if adjusted in a horizontal position it serves as either an electric grinder, a buffer or a polisher. The spindle speed is high and makes this thoroughly practical. It is stated that several garages and shops have been able to eliminate the purchase of two distinct and expensive units by using this combination for their work, the saving in most instances being over 60 per cent in first cost. Operating cost is also reduced.

The complete drill press stand weighs only 30 pounds and, with the "Hole Shooter" included, only 34 pounds. The drilling capacity of the latter is up to one quarter inch in metal and up to five-sixteenths in wood. The motor, it is said, cannot be stalled on any job within its rated capacity. The entire combination is available for a multitude of operations and will be widely appreciated and used by automobile and other mechanics.



# Construction Department

## EXPLANATORY.

The MANUFACTURERS RECORD seeks to verify and obtain additional information regarding all enterprises reported in its Construction Department, by direct daily correspondence. Further facts of news value are published later from telegraph, mail and representatives' reports. We appreciate having our attention called to errors that may occur.

## DAILY BULLETIN.

The Daily Bulletin of the MANUFACTURERS RECORD is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$20.00 per year.

## Bridges, Culverts and Viaducts.

Ala., Birmingham—Jefferson County Board of Revenue. For full detail see Mch'y. Wanted—Bridge Construction.

D. C., Washington—District Commrs. let contract to Royal J. Mansfield, at \$17,798, to repair Calvert St. bridge; construct asphalt floors, supersede wooden flooring.

Fla., Century—Escambia County Commrs., plans building 325-ft. bridge across McCurdy's Creek; cost \$30,000; Santa Rosa County to pay half.

Fla., Quay—Town will construct bridge across Indian River voted \$35,000 bonds. Address The Mayor.

Fla., West Palm Beach—Palm Beach County Commrs., Hector Harris, Chmn., will complete construction Royal Park Bridge over Lake Worth, between West Palm Beach and Palm Beach; low bidder; C. E. Hillyer, Jacksonville, Fla., at \$294,410, and to build temporary trestle near main structure, at \$8000; vote June 20 on \$100,000 bonds.

Ky., Forks of Elkhorn—Franklin County. For full detail see Mch'y. Wanted—Bridge Construction.

Miss., Meadville—State Highway Comsn., Meridian, Miss., plans constructing bridge in Franklin County across Homochitto River.

Missouri—State Highway Dept., Jefferson County, Mo., build 5 bridges. For full detail see Mch'y. Wanted—Bridge Construction.

Mo., Fredericktown—State Highway Dept., Jefferson City, Mo., will build 6 bridges on State road from Farmington to Fredericktown and Greenville; total cost \$22,843.90; Madison County, Federal Aid Project No. 101, Section B; M. S. Murray, Div. Engr., Sikeston, Mo.

Mo., Monett—State Highway Dept., Jefferson City, Mo., plans building 2 bridges on State road from Monett to Eureka Springs; Sta., 844 plus 40, reinforced concrete low water bridge; 18-ft. roadway.

Sta. 901 plus 41, two 18-ft. reinforced concrete slab spans; concrete pier; 2 concrete abutments; 18-ft. roadway; Barry County, Federal Aid Project No. 124; H. P. Moberly, Div. Engr., Woodruff Bldg., Springfield, Mo.

North Carolina—State Highway Comsn., Raleigh, N. C., will build following projects: No. 104-B—Beaufort County, repair bridge at Leechville.

No. 366—Onslow County, build bridge over New River.

N. C., Charlotte—City, Edgar Reed, Clk., will build overhead bridge; 40-ft. wide; steel girders; concrete abutments; W. S. Stancil, Commr. Public Works.

N. C., Spencer—State Highway Comsn., Raleigh, N. C., plans expending \$240,000 to build double width concrete bridge over

Yadkin River; let contracts in June; Tallahassee Power Co. to pay \$40,000.

Okla., Chickasha—City. For full detail see Mch'y. Wanted—Bridge Construction.

S. C., Hampton—State Highway Dept., Columbia, S. C., 2 bridges. For full detail see Mch'y. Wanted—Bridge Construction.

S. C., Union—State Highway Dept., Columbia, S. C., build bridges on Union-Whitmore road over Tiger River and Padgett's Creek; \$50,000; contracts let June 26.

Tenn., Jacksboro—Campbell County Highway Commrs. will construct 7 bridges. For full detail see Mch'y. Wanted—Bridge Construction.

Tenn., Pikeville—State Highway Dept., Nashville, Tenn. For full detail see Mch'y. Wanted—Bridge Construction.

Tex., Ballinger—Runnels County plans building following bridges:

Over Elm Creek, on State Highway No. 30, north of city; 125-ft. steel span with concrete trestle approaches.

Over Colorado River, on State Highway No. 30; 500-ft. bridge, consisting of 180-ft. steel truss with concrete trestle approaches.

Over Elm Creek, on State Highway No. 7, east of city; 300-ft. bridge, consisting of 125-ft. steel span on concrete piers, with concrete trestle approaches; cost \$30,000; Paul Trembler, County Judge; U. Stephens, County Engr.

Tex., Boston—Bowie County Commrs. Court, build bridge over Sulphur River; vote June 24 on \$65,000 bonds.

Tex., Columbus—Colorado County plans building 250-ft. steel span bridge; bids in near future. Address J. C. Hays, County Judge, or B. H. Faber, County Engr.; both Columbus.

Tex., Fort Worth—Tarrant County plans expending \$6000 to build bridge on State Highway No. 40;

Also construct steel and concrete structure on State Highway No. 34; cost \$30,000; replace bridges recently destroyed; Hugh L. Small, County Judge; R. V. Glenn, County Engr.

Tex., Fort Worth—Tarrant County plans expending \$25,000 to build bridge on State Highway No. 10; Hugh L. Small, County Judge; R. V. Glenn, County Engr.

Tex., Houston—City. For full detail see Mch'y. Wanted—Culvert Construction.

Tex., Pickwick—Palo Pinto County plans building bridge over Brazos River near city; contemplates issuing bonds; E. L. Pitts, County Judge; G. W. Courter, County Engr., both Palo Pinto.

Tex., Port Arthur—City Comsn. let contract to Douillet & Williams, New Orleans, La., and Houston, Tex., at \$57,000 to build pier bridge span over Sabine-Neches canal; J. P. Logan, Mayor.

Tex., Vernon—Interstate Bridge Co., cap-

ital \$25,000, ineptd. by J. F. Mellott, J. M. DuBois and J. L. Manley; all Bellaire, Ohio.

Tex., Wichita Falls—Wichita Falls, Burk Burnett and Wichita County plan building bridge on Meridian Highway over Red River; cost \$27,000; J. P. Jones, County Judge, J. M. Isbell, County Engr.; both Wichita Falls.

Va., Alexandria—State Highway Comsn., Richmond, Va., let contract to J. E. Lane & Co., Altavista, Va., to build 60-ft. low-truss span bridge, concrete floor, over Holmes' Creek; J. C. Albright, Engr.; G. P. Coleman, State Highway Engr.

## Canning and Packing Plants.

Fla., Jacksonville—Jacksonville Products Co., Frank Burkhardt, Mgr. acquired plant and equipment of Arcadia Citrus Products Co., will improve plant and install additional machinery; daily capacity 1000 doz. jars jellies, etc.

## Clayworking Plants.

Mo., St. Louis—Clayworking—W. S. Hooper, Prest., Ozark Iron Ore & Mfg. Co., Poplar Bluff, Mo., contemplates erecting pottery to mfr. dishes nr. St. Louis. (See Mch'y. Wanted—Pottery.)

Tex., Houston—Clay Products—Houston Clay Products Co., capital \$10,000, ineptd. by W. M. Merritt, C. L. Hunter, Geo. Kruger.

## Coal Mines and Coke Ovens.

Ky., Garrett—Standard Elkhorn Coal Co., increased capital to \$300,000.

Ky., McAndrews—Trent Pond Creek Coal Co., organized with T. J. Trent, Prest.-Mgr.; develop 35 acres coal land, daily output 1 car; has equipment. (Lately noted ineptd.)

W. Va., Clarksburg—Will-Earl Coal Co., capital \$10,000, ineptd. by W. M. Horner, E. L. Rogers and E. A. Bartlett.

W. Va., Huntington—Carry On Coal Co., increased capital to \$200,000.

W. Va., Miami—Cherokee Coal Co., W. B. Kubach, Mgr., 503 Janet Bldg., Charleston, W. Va., develop 500 acres coal land, daily output 500 tons. (Lately noted ineptd., capital \$10,000.)

## Concrete and Cement Plants.

Fla., St. Petersburg—Concrete Products, etc.—Leesburg Sand & Supply Co., capital \$10,000, ineptd. with C. L. Raymond, Prest.; R. W. Smith, Secy.-Treas.

W. Va., Lansing—Concrete Blocks, etc.—Shawner Construction Co., J. A. Ellison, Mgr., has under construction 60x60-ft., 1 story frame building; mfr. cement block and brick, also lumber; install concrete block and brick machines, plauer, sash and resaw, stone crusher, concrete mixer, gasoline engine and trucks. Lately noted ineptd. (See Mch'y. Wanted—Stone Crusher; Cement; Engines (Gasoline); Planer; Lumber).

## Cotton Compresses and Gins.

Ark., Paragould—Bertrig Bros. lately noted to rebuild burned plant will install 8 gin stand and oil engine. (See Mch'y. Wanted—Oil Engine.)

Miss., Jackson—Hiawatha Mfg. Co., reorganized with \$250,000 capital, Chas. F. Sherrod, Jr., Prest. and Gen. Mgr.; Carl L.

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Faust, V. P.; E. G. Olden, Secy.

Tex., Engle—Farmers Co-Operative Gln Society, capital \$12,000, inceptd. by F. R. Petter, W. Nerzik, A. Morkovsky.

Tex., Stanton—Farmers' Gln & Cotton Co., capital \$16,000, inceptd. by W. H. Clements, J. E. White.

Tex., Sweetwater—Reed Gln Co., capital \$26,500, inceptd. by J. W. Simmons, Jr., J. B. Reed, R. M. Simmons.

### Drainage Systems.

Ark., Newport—Jackson County Commrs., organized Drainage Dist. No. 11 of Third and Jefferson Townships; John E. Melville, County Judge.

Ga., Townsend—Jackey Camp Drainage Dist. Commrs., W. J. Long, Chrmn., construct 6½ ml. drainage ditch, 225,622.5 cu. yds. excavation; 9.9 ml. lateral ditches, 119,489 cu. yds. excavation; bids open June 20; Will. D. Alexander, Drainage Engr., 207 Monroe Rd., Charlotte, N. C. (See Mch. Wanted—Drainage.)

Mo., Carrollton—Egypt—Prairie Drainage Dist. of Carroll County, J. H. Franken, Secy., Norborne, Mo., construct ditch, drag line work, 315,000 yds. earth excavation; bids until June 20; Clark E. Jacoby, Const. Engr., Shukert Bldg., Kansas City, Mo. (See Mch. Wanted—Drainage.)

Tex., Clarksville—Red River County Commrs., improve Levee Dists. Nos. 3 and 6; vote June 17 on \$40,000 bonds for Dist. 3 and June 19 on \$20,000 bonds for Dist. No. 6. (Lately noted.)

### Electric Plants.

Ala., Anniston—City, contemplates establishing white way; Address The Mayor.

Ark., Russellville—For full details See Water Works.

Fla., Homestead—City, will extend electric light plant, improve water works, fire department and streets; votes July on \$50,000 light bonds; \$5,000 for fire department; \$25,000 for water works, pumping plant, etc.; \$35,000 for streets.

Fla., Punta Gorda—City contemplates installing light and power plant. Address The Mayor.

Md., Baltimore—Tennessee Electric Power Co., capital \$40,000,000, inceptd. by Edward Winslow, George Lee Estebrook, George Rickard Nichols, all of Phila., Pa.

Mo., Clinton—West Missouri Power Co., purchased site, will erect power station.

Mo., Marshall—For full details See Water Works.

Mo., Slater—City will improve power plant; vote on \$25,000 bonds Address The

### Mayor

Okla., Eldorado—For full details see Mch. Wanted—Electric Light Construction.

Okla., Okemah—City may extend power plant, contemplates voting on \$75,000 bonds. Address The Mayor.

S. C., Florence—Palmetto Power & Light Co., P. A. Tillery, Raleigh, N. C., V.-P. and Gen. Mgr. will expend \$52,000 in rebuilding and enlarging part of distributing system; purchased 70x170 ft. site, install 500 H.P. boiler in plant, cost \$20,000; cooling tower, cost \$12,000.

Tenn., Chattanooga—J. F. Crabtree and others will install lights, streets, and water in connection with development of home site.

Tenn., San Antonio—San Antonio Public Service Co. will construct \$30,000 addition to turbine room of power house; brick and concrete.

Tex., Livingston—For full detail see Mch. Wanted—Electric Light Plant.

W. Va., Kingwood—West Penn—West Virginia Water Power Co., capital \$1,000,000, inceptd. by A. M. Lynn, R. B. Keating, C. P. Billings, all of Pittsburgh, Pa.

### Flour, Feed and Meal Mills.

Mo., Ewing—Farmers Elevator and Exchange Co. increased capital to \$18,000, will construct elevator and warehouse; capacity 14,000 bu. grain; install weigher, cleaner and dump operated with air pressure.

Tex., Canadian—Liske Grain Co., capital \$10,000, inceptd. by R. H. Stone, A. Liske, B. F. Tempe.

Tex., Dallas—Pearl Mill & Elevator Co., capital \$200,000, inceptd. by J. H. Pearlstone, Tucker Royal, Pyman Pearlstone.

### Foundry and Machine Plants.

Ala., Gadsden—Plumbing Specialties—Stringer Brothers Co., reported to make plant improvements.

Ky., Louisville—Gasoline Pumps—Measurelto Co., Tampton Aubuchon, Prest., erect 1 story steel and glass plant at 14th and Hill St., 50,000 sq. ft. floor space; \$100,000; mfr. gasoline pumps, annual capacity 5000 machines.

Mo., Kansas City—Castings, etc.—Standard Foundry & Mfg. Co., 204 Scarrity Bldg., organized with W. H. Simpson, Prest.; J. B. Harden, Secy.-Treas.; let contract to G. M. Baltis, to erect 90x120-ft. steel construction bldg. for foundry and machine work. (Lately noted inceptd., capital \$250,000.)

Okla., Bristow—Tanks—Producers' Tank Co., capital \$25,000, inceptd. by E. M. Woody, L. D. Hoss and others.

Okla., Oklahoma City—Stoves—Radio Oil-

Gas Stove Co. (lately noted inceptd., capital \$10,000) organized with Chas. V. Stuart, Prest.-Mgr.; building plans not completed; mfr. stoves for heating and cooking, radiators, furnace burners, tanks, lava tips, etc. (See Mch. Wanted—Stove Materials (Oil-Gas).)

Tenn., Nashville—Ranges—Braun Flint Range Co., increased capital to \$350,000.

Tenn., Nashville—Foundry—Henry Furnace & Foundry Co., capital \$10,000, inceptd. by Will R. Mauler, Jr., Larkin E. Crouch and Jos. M. Clark.

Tex., El Paso—Elevators, etc.—Steel Products Corp., capital \$10,000, inceptd. by J. H. Sanford, Jr., M. M. Goodell and others.

Tex., San Antonio—Oil Well Supplies—Federal Export & Supply Co., capital \$25,000, inceptd. by J. M. Ohara, Homer Rogers and W. M. Ailman.

W. Va., Huntington—Mine Cars—A. B. Day, Knoxville, Tenn., purchased plant of State Mine Car & Foundry Co., will rehabilitate, and re-organize as Cumberland Iron Co.

W. Va., West Union—West Union Machine & Supply Co., capital \$50,000, inceptd., by J. N. Chancellor and John R. Murphy, West Union; Wallace L. Lynn, Clarksburg, W. Va.

### Gas and Oil Enterprises.

Ark., Scotland—Eagle Oil & Gas Co., capital \$10,000, inceptd. by N. A. Simpson, W. E. and A. L. Hall.

Fla., Tallahassee—Taylor-Moore Syndicate, capital \$100,000, inceptd. by James F. Taylor, Earle C. Moore and G. M. Moore.

Fla., West Palm Beach—Palm Beach Oil Co., capital \$10,000, inceptd. with B. D. Hartsfield, Prest.; H. P. Jones, V.-P.; M. M. May, Secy.

Miss., Magnolia—Mid-Central Oil & Gas Co., main office 740 Union St., Orleans, La., capital \$50,000, inceptd. with George H. Hodge, Prest.; Dr. A. C. Wilkins, V.-P.; Gus Llamblas, Secy.-Treas.; develop 15,800 acres in Pilse County.

Mo., St. Louis—Missouri Refining Co., inceptd. by J. C. Cannon, C. E. Abele, R. S. Baker.

Okla., Blackwell—Kay Oil Co., capital \$75,000, inceptd. by Dave Schonwald, W. M. Vickery, H. S. Curley.

Okla., Bristow—Producers Tank Co., capital \$25,000, inceptd. by E. M. Woody, L. D. Hoss, Marie Woody.

Okla., Okmulgee—Willmott Oil Corp., capital \$400,000, inceptd. by C. S. Willmott, John Caruthers, Joe M. James.

Tex., Dallas—Oleander Petroleum Co., capital \$100,000, inceptd. by J. H. Hill, F. M. Lege, Jr., C. B. McKinney.

## OPPORTUNITIES FOR NEW BUSINESS

THROUGH THE

## DAILY BULLETIN

Manufacturers of Machinery and Equipment, Dealers in Railroad and Contractors' Supplies, as well as Architects, Contractors and Builders, find it very profitable to follow up the advance news furnished through our **DAILY BULLETIN EVERY BUSINESS DAY IN THE YEAR.** It is an authoritative, prompt source of information concerning every industrial and railroad undertaking of any consequence, and likewise all important building operations and municipal improvements in the whole South. The opportunity of getting in correspondence with firms that are in the market is afforded by a daily perusal of its columns.

MANUFACTURERS RECORD

BALTIMORE, MD.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the **Manufacturers Record** is mentioned.



Tex., Dallas—Progressive Royalty & Production Co., inceptd. by J. W. Hamilton, A. D. Barber, J. H. Sweatt.

Tex., Houston—Industry Oil Corp., capital \$100,000, inceptd. by W. E. Harris, Dem. Christof. J. H. Demetre.

Tex., Mexia—Southern Oil Fields Corp., capital \$500,000, inceptd. by O. H. Foster, J. E. Winans, A. D. McDonald.

Tex., Mineral Wells—Great Texas Oil & Refining Co., Fort Worth, Tex., F. O. Stevenson, Const. Engr., construct 1000 bbl. refinery.

Tex., Orange—Thrift Oil Corp., capital \$150,000, inceptd. by J. G. Sutton, S. L. Cohenour, C. P. Martin.

Tex., Port Arthur—Gulf Refining Co. let contract to Stewart & Co., to construct grease and canning plant at West Port Arthur; reinforced concrete; 175 ft. sq.; 4 stories; cost about \$250,000.

Tex., San Antonio—San Antonio Oil & Natural Gas Co. let contract to Elder Construction Co. for laying gas pipe line.

Tex., Wichita Falls—Petroli Supply Co., capital \$175,000, inceptd. by A. A. Kuehn, J. L. Staley, F. B. Cox.

Va., Roanoke—City receives bids until July 1 for gas franchise; P. H. Tucker, Clk.

W. Va., Charleston—Natural Gas Products Co., inceptd. by E. M. Burdette, C. L. Voress, V. C. Canter.

W. Va., Huntington—Tompkins Oil & Gas Co., capital \$50,000, inceptd. by G. H. Tompkins, G. R. Armstrong, Huntington, A. L. Settle, Spring Hill.

### Hydro-Electric Plants.

Va., Newmarket—Federal Power Comsn. granted preliminary power permit to Edward T. Brown to develop power on Cub and Pitt Springs Run to furnish light for Engless Caverns and town of New Market; provide 125 H. P.

Va., Scottsville—Big Bend Power Co. is contemplating plans for construction of hydro-electric power plant along James River.

### Ice and Cold-Storage Plants.

Ky., South Carrollton—Spring Water Ice Co., capital \$12,000, inceptd. by J. F. Wolcott, Mac Ferguson and J. A. Whitmer.

Md., Baltimore—Seaboard Terminal & Warehouse Co., 2217, Boston St., capital \$100,000, inceptd. by Hugo P. F. Albrecht, Robert C. Herd and Edward T. Dempsey.

Tex., Amarillo—Merchants Produce Co. let contract to erect 30 ton ice plant.

Miss., Hazlehurst—Hazlehurst Ice & Creamery Co., I. N. Ellis, Pres., will erect \$5000 mill construction building; install 25 ton ice plant, \$20,000; W. H. Emmerson, Mgr. and Const. Engr. (Lately noted.)

Tex., Amarillo—Merchants' Produce Co. let contract to erect 30 ton ice plant.

Tex., San Augustine—San Augustine Ice Co., capital \$17,000, inceptd. by R. C. Downs, W. J. McKnight and A. O. Rushing.

### Iron and Steel Plants.

Ala., Gadsden—Gulf States Steel Co., C. A. Moffett, Pres., Birmingham, Ala., reported to expend from \$75,000 to \$150,000 on plant improvements, install additional mchy.

### Land Developments.

Fla., Jacksonville—Lauderdale Holding Co., capital \$10,000, inceptd. with W. H. Carmichael, Pres.; J. E. Osborne, V.-P.; Wm. Stanley, Secy.

Fla., Jacksonville—St. Elmo W. Acosta, Giles W. Wilson and others interested in

development of water front park site near Black Point.

Fla., Miami—Gleason Co., capital \$50,000, inceptd. with W. L. Gleason, W. H. H. Gleason.

Fla., Molino—Roy L. Wimble, Thos. C. Mason, both of Detroit, Mich., and associates acquired tract of 5000 acres in Escambia county for agricultural development.

Fla., St. Petersburg—Florimass Co., capital \$200,000, inceptd. with Charles J. Maurer, Pres.; M. F. Fitz Gerald, V.-P.; John D. Harris, Secy.

Fla., Tampa—Ridgewood Park Co., lately noted inceptd. with J. W. Sample, Pres., will develop 160 acres for subdivision, construct streets, etc.

Fla., West Palm Beach—General Improvements Corp., capital \$300,000, inceptd. with J. D. McDonald, Pres.; H. C. Daniels, V.-P.; A. E. Parker, Secy.

Md., Baltimore—Chas. H. Steffey, Inc. purchased site on York Rd., develop for homesite.

Mo., Independence—City will purchase Independence Fair grounds and equip for playgrounds; votes June 27 on \$60,000 bonds.

Mo., Kansas City—Norwood Investment Co., capital \$50,000, inceptd. by E. L. Morrow, J. H. Wood, G. D. Kirk.

Mo., St. Louis—Carondelet Realty Co., capital \$18,000, inceptd. by C. J. Phillips, Joe Metzler, M. G. Meyer.

Mo., St. Louis—Sesame Real Estate Co., capital \$100,000, inceptd. by J. S. Leahy, J. A. McKeown, I. T. Cook.

Mo., St. Louis—Serg Realty Co., inceptd. by Stella R. O'Reilly, Vincent Dempsey, E. J. Carroll.

N. C., Elkin—J. F. Hendren interested in development of 6000 acre peach orchard.

S. C., Columbia—Columbia Holding Co., inceptd. with E. R. Heywar Pres.; J. C. Otis, V. P.; R. A. Childs, Secy.

S. C., Dillon—Riverside Cemetery Assn., capital \$5000, inceptd., W. Floyd, Pres.

S. C., Laurens—Laurens Realty Development Co., capital \$20,000, inceptd. with R. A. Cooper, Pres.; C. I. Martin, Secy.

S. C., Spartanburg—A. B. Calvert, Spartanburg, S. O. Allen and Beuregard Smith of Greenville, S. C., plan to develop about 50 acres for fruit nursery; cost about \$30,000.

Tex., San Juan—Rio Grande Valley Citrus Industries, Bank L. Miller, Gen. Agt., capital stock \$50,000, will develop 500 acres for nursery. (See Mch. Wanted—Nursery Supplies.)

Va., Roanoke—Lee-Hy Court Corp., capital \$100,000, inceptd. with W. C. Turner, Pres.; S. B. Pace, Secy.

### Lumber Manufacturing.

Ala., Huntsville—George C. Brown & Co., erect lumber plant; leased site.

Ark., Little Rock—J. H. Pritchard Lumber Co., capital \$100,000, inceptd. with J. H. Pritchard.

Fla., Gainesville—W. F. Duke & Co., capital \$30,000, inceptd. with W. F. Duke, Pres.; J. T. Langford, Secy.-Treas.

Fla., Pensacola—Ferris-Lee Lumber Co., W. B. Ferris, Pres., erect 20x44-ft. fireproof dry kiln. (Lately noted.)

Ga., Macon—Cass-Fowler Lumber Co., H. C. Fowler, Gen. Mgr., rebuild saw mill at Crump's Park, burned at loss of \$75,000.

Tex., Eastland—E. A. Scripture Lumber Co., capital \$50,000, inceptd. by A. E. Scripture, Calvin Brown and J. M. Ferrel.

Ky., Jackson—Jackson Lumber & Supply Co., W. C. Cole, Mgr., plans rebuilding

lumber mill, approx. cost \$130,000. (Lately noted burned.)

Va., Graham—C. L. Seyler Lumber Co., C. L. Seyler, Mgr., Bluefield, W. Va., purchased 800 acres timber tract, consists of about 6,000,000 ft. red oak, poplar, chestnut and bass; install small band mill, planer and lathe mill, probably dry kilns, hardwood flooring equipment, 3 mill light steel rails and light locomotive, purchase about Sept. 1. Lately noted. (See Mch. Wanted—Logging Equipment; Woodworking Equipment; Saw Mill, etc.)

W. Va., Elkins—Randolph Planing Mill Co., increased capital to \$150,000.

### Metal-Working Plants.

Ala., Birmingham—Typewriter—Alabama Typewriter Co., capital \$50,000, inceptd. by H. B. Gooch, A. T. Kerr and E. A. Leschart.

Fla., Jacksonville—Safety Starter—Yonge Safety Starter Switch Co., capital \$50,000, inceptd. with J. A. McCloud, Pres.; Laurie W. Yonge, Secy.-Treas.

Ky., Louisville—Tools—Louisville Electric Mfg. Co., increased capital to \$140,000.

Md., Hagerstown—Re-Tinning, etc.—Hagerstown Re-Tinning & Plating Co., capital \$20,000, inceptd. by Marion L. Bingley, Frank J. Bullard and Charles H. Parede.

Mo., Kansas City—Metals—Porter Mfg. & Sales Co., capital \$10,000, inceptd. by A. N. Porter, E. J. Thomas and F. C. Downey.

Mo., Lee's Summit—Soldier, etc.—White's Metal Co. (lately noted inceptd.) organized with M. J. White, Pres.-Mgr.; mfrs. aluminum and cast iron solders; acquired White Metal Co. with its contracts.

S. C., Sumter—Insect Traps—Gable-Christal Co., capital \$25,000, inceptd. with C. P. Gable, Pres.; C. C. Christal, Secy.-Treas.; mfrs. insect traps, etc.

Tex., Houston—Sheet Metal—Davis-George Mfg. Co., Box 1461, has plant and mchy.; have added mfrs. of stove pipe and elbows to product; increased capital to \$100,000. (Supersedes recent item.)

### Mining.

Fla., Lake Eustis—Sand—Acme Sand Co., capital \$50,000, inceptd. with C. S. Henning, Pres.; L. D. Wyly, Secy.-Treas.

Ky., Louisville—Asphalt—Consolidated Asphalt Co., capital \$1,000,000, organized with M. M. Ford, Gallatin, Tenn., purchased several thousand acres land, erect \$400,000 plant.

Ky., Newport—Sand—Kentucky Sand Co., (lately noted inceptd., capital \$60,000), organized with F. E. Hall, Pres.-Mgr.; T. P. Walker, Secy.-Treas.; has plant, install locomotive crane. (See Mch. Wanted—Crane (Locomotive).)

Tenn., Copperhill—Tennessee Copper Co., J. N. Houser, Gen. Mgr., 61 Broadway, N. Y., has under construction 500 ton flotation plant, equipment purchased. (Lately noted.)

Tenn., Nashville—Asphalt—Hercules Silica Asphalt Corp., capital \$1,000,000, inceptd. by Brown Davis, M. Brumbaugh and W. B. Evans.

W. Va., Moundsville—Sand—Independent River Sand Co., organized with M. J. McQuade, Pres., Treas. and Mgr.; James S. Ralph, Secy., both 712 Park Bldg., Pittsburgh, Pa.; install dredges, gas and steam boats, daily output 1500 tons sand and gravel. (Lately noted inceptd., capital \$250,000.)

### Miscellaneous Construction.

Fla., Ft. Lauderdale—Inlet, etc.—Broward County Commrs. propose construction of

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inlet from Atlantic Ocean into New River Sound, work involving riprap and jetty construction, suction dredging; \$85,000; probably open bids in about 60 days. (Lately noted.)

Fla., Jacksonville—Terminals, etc.—Geo. B. Hills, Engr., recommends developing municipal terminals, etc.; estimated cost \$881,158.

Fla., Lake Worth—Inlet—Anderson Dredging Co., A. S. Anderson, Prest., Box 678, West Palm Beach, Fla. has contract for excavation of rock in Lake Worth inlet.

Fla., Lake Worth—Pier—City will complete construction of pleasure pier, steel extend 150 ft. from shore. Address Mayor Drake.

Fla., Punta Gorda—Dock—Gulf Refining Co. signed contract with City to rebuild dock, 1300 ft. long, 10 ft. wide, with two turn outs, each 30x50-ft.

Fla., Tampa—Harbor Improvements, etc.—City will complete municipal port project on west side of Ybor ship channel, voted \$600,000 bonds; for 2435 ft. concrete docks and bulkheads, \$426,125; 1 story 750x75-ft. steel freight warehouse, \$70,000; installing cranes, trucks, etc., \$40,000; water supply, office buildings, etc., \$30,000; A. W. D. Hall, City Mgr.

La., New Orleans—Wharf—City contemplates raising entire wharf line several feet as protection against floods; first work will be 2600 ft. at Robins St., 1180-ft. Celest St., 600 ft. Seventh St., 700 ft. Market St., 987 ft. Erato St. and 1580 ft. St. Andrews St.; estimated cost about \$1,000,000. Address The Mayor.

Mo., Fulton—Swimming Pool—McIntire Ice & Floral Co. let contract to J. P. Bass to construct 50x80-ft. concrete swimming pool. (Lately noted.)

N. C., Belmont—Memorial Monument—C. R. Scoggins, of Charlotte Marble & Granite Works, Charlotte, N. C., received contract to erect hero memorial monument, 25 ft. high, with 5-ft. base.

Tenn., Benton—Flume—Tennessee Power Co., rebuild 5 ml. of flume line at Caney creek, called No. 2, concrete construction; quantity of steel purchased.

Tenn., Nashville—Elevator—Chamber of Commerce, interested in establishing grain elevator.

Tex., Beaumont—Wharf—Gulf Refining Co. let contract to James Stewart & Co., New York, to construct 1500 ft. wharf, concrete piling, sheet concrete bulkheads, reinforced concrete aprons.

Tex., Corpus Christi—Terminals — City plans constructing terminals and harbor facilities for deep water port; contemplate bond issue; T. H. Tracy, Industrial Engr.

Tex., Fort Worth—Levee—City Comsn. let contract to Tarrant Construction Co. at \$29,232.20 to construct levee around Holly pump station. (Lately noted.)

Va., Ocean View—Norfolk—Dredging—Dr. Clinton Kane, Director of Malaria control of State Board of Health, in charge of dredging project to drain all of Ocean View sections, include Lake Modoc and Mason's Creek, total area about 60 acres; L. M. Clarkson, Engr.

### Miscellaneous Enterprises.

Ala., Birmingham — Heating Plant—The Pate Co. received contract to install heating plant at Wylam School building, 7th Ave. and 31st St., \$26,000.

Ark., Stuttgart—Water Supply—Layne-Arkansas Co., organized with Fred T. Thayer, Mgr., taken over work of Layne & Bowler Co., Memphis, Tenn., in Arkansas and Missouri; engaged in installation of pumping units, approx. depth of wells, 150 ft., 24-in.

diam., graveled walled type, capacity from 800 to 4000 ga. per min., pumped with deep well turbine pump. (Lately noted.)

Fla., Daytona—Inclinator—City contemplates installing inclinator plant. Address The Mayor.

Fla., Homestead—For full detail see Electric Plants.

Fla., Plant City—Fire Fighting Equipment —For full detail see Water Works.

Fla., Moore Haven — Boat Line — Lake Shore Transportation Co., capital \$50,000, inceptd. with T. J. Zimmerman, Prest.; Julian Zimmerman, Secy.-Treas.

Fla., Palm Beach—Electrical Engineering —Palm Beach Electric Co., capital \$30,000, inceptd. with F. H. Worthington, Prest.; Nova Sastlen, Secy.-Treas.

Fla., St. Petersburg—Dairy — Sunshine Dairy Co., capital \$30,000, inceptd. with W. H. Belcher, Prest.; W. A. Lipsey, Secy.

Fla., Seabreeze—Inclinator—City let contract to Nye Ordorless Crematory Co., Macon, Ga. to install incinerator plant

Fla., Tallahassee—Live Stock—South Florida Live Stock Co., capital \$10,000, inceptd. by J. D. Wilbanks, Harry Anderson and others.

Fla., Tampa—Forwarding — Tampa Forwarding Co., capital \$10,000, inceptd. with J. T. Swann, Prest.; R. D. Wood, Secy.

Fla., Titusville—Construction — Langston Construction Co., capital \$50,000, inceptd. with E. C. Langston, Prest.; Jennie C. Langston, Secy.-Treas.

Ga., Anderson—Laundry—E. & W. Laundry Co., let contract to T. R. Worrell, to erect 1-story, 105x181-ft. factory type building; J. DeBruyn Kops, Archt.

Ky., Lexington—Bus Line—Reo Bus Lines Co., capital \$20,000, inceptd. by E. R. Webb, J. E. Kittrell and C. D. Calloway.

Ky., Lexington—Dairy—Co-operative Dairy Co., erect dairy plant on Jefferson St., \$11,000.

La., Monroe—Creosoting Plant—J. E. Henderson, interested in establishment of plant for treating lumber.

Md., Baltimore—Electrical Construction—Eureka Electric Co., 5 W. Pratt St. organized with Harry Cohen, Mgr., has building, invite bids on lathe, grinder, drill press, vises, stocks and dies, cutting tools, shafting, motors, etc. Lately noted inceptd. (See Mch. Wanted—Electrical Supplies; Machine Shop Equipment.)

Miss., Lyman—Livestock—Swan Co., capital \$25,000, inceptd. by W. F. Swan and W. L. Guice, Biloxi, Miss.; G. A. Swan, Lyman.

Mo., Glasgow—Hotel—Glasgow Hotel Co., capital \$21,000, inceptd. by Fred Adgate, R. E. Turner and J. H. Jackson.

Mo., Kansas City—Motion Pictures—Laugh O. Gram Films, Inc., capital \$15,000, inceptd. by W. E. Disney, W. M. Lyon and Fletcher Hammond.

Mo., Kansas City—Dairy—Sheffield Farm Dairy Co., capital \$25,000, inceptd. by H. C. King, I. E. Casper and J. W. Kachelhofer.

Mo., St. Louis — Amusement—Assembly Hall Co., capital 200,000, inceptd. by R. D. Barrett, A. C. Chapman and W. E. Osborne.

N. C., Henderson—Re-drying Plant—R. J. Reynolds Tobacco Co. reported to rebuild re-drying plant; has plans.

N. C., Reidsville—Receiving Plant—Tobacco Growers' Co-operative Assn., R. S. Montgomery, Chrmn. interested in organizing \$100,000 company to establish and equip receiving plant.

Okla., Ada—Publishing—Bulletin Publishing Co., 128 E. 10th St., organized with L. R. Clark, Prest.; Arla R. Clark, Secy., erect 12x20-ft. frame addition to present building.

(Lately noted inceptd., capital \$10,000.)

Tenn., Columbia—Construction—Van Troop Construction Co., capital \$15,000, inceptd. by W. S. Roberts, A. Y. Burrows and L. W. Armstrong.

Tenn., Jacksboro—Hardware — Campbell County Hardware Co., capital \$25,000, inceptd. by Winston Baird, E. H. Powers and S. J. Parks.

Tex., Austin—Hardware — Austin-Morris Hardware Co. increased capital to \$102,300; changed name from Austin Hall Hardware Co.

Tex., Bartlett—Hardware—Hardin Hardware Co., capital \$20,000, inceptd. by E. M. Wilson, E. L. and L. B. Hardin.

Tex., Dallas—Construction—Pacific Avenue Improvement Assn., inceptd. by H. A. Olmstead, C. B. Gardner and W. H. Wray.

Tex., Fort Worth—Laboratories — Globe Laboratories, increased capital to \$250,000.

Va., Petersburg—Undertaking, etc.—Epps & Epps, inceptd. with C. W. Epps, Prest.; J. H. L. Epps, Secy.; undertaking and embalming.

Va., Richmond—Florist—J. Bernard Brown, purchased building at 8 W. Grace St., remodel for florist establishment.

W. Va., Logan—Cleaning, etc.—Royal Dry Cleaning & Laundry Co., capital \$40,000, inceptd. by W. C. Crouch, E. A. Wilson and A. J. Linkous.

W. Va., Huntington—Abattoir—W. E. Dillon, 938 Washington Ave., plans erecting slaughter house.

### Miscellaneous Factories.

Ala., LaPine—A. E. Davis Permanent Ink Co., main office Wilmington, Del., lately noted inceptd. with \$100,000 capital, organized with A. E. Davis, Prest., Sellers, Ala.; W. C. Natfel, Secy., Natfel, Ala.; T. A. Bullard, Mgr., LaPine. (See Mch. Wanted —Ink Mixing Machine.)

Ark., Mena—Candy—W. E. Bailey & Sons will establish candy plant on De Queen St.

Tenn., Memphis—Remedy — DeVard Asthama Remedy Mfg. Co., inceptd. by J. W. Deviney, W. E. Jones, J. G. Moore.

Ark., Van Buren—Creamery — Business Men's Club interested in establishment of creamery.

Fla., Gainesville—Fibre Products—Vego-Hair Mfg. Co., A. H. Selle, Mgr., will rebuild burned plant; 1 story brick building, 30x50 ft.; 2 steel buildings, 30x60 ft.; fireproof; gin and cure moss and other fibre; mch. purchased.

Fla., Jacksonville — Bottling — Grapico Bottling Co., capital \$20,000, inceptd. with F. S. Harden, Prest.; C. Z. Suddath, V.-P.; A. G. Harden, Secy.

Fla., Jacksonville—Clothing, etc.—Owl Dry Goods Co., capital \$50,000, inceptd. with C. C. Balkcom, Prest.; V. M. Covington, V.-P.; E. L. Monroe, Secy.

Fla., Jacksonville—Syrup—Florida Coconut Syrup Co., H. L. Perkins, Prest., Miami, establish plant to mfg. coconut syrup.

Fla., Lakeland—Shoes—Florida Shoe Mfg. Co., capital \$50,000, inceptd. with Paul Hendrick, Prest.; Phillip Fischer, V.-P.; F. P. Fischer, Secy.

Fla., Miami—Mattress—Miami Mattress Co., Richard M. Wells, Propr., will construct 150x50 ft., 2 story, concrete and tile building; daily capacity 50 mattresses and 50 box springs; cost \$18,000; electric power plant; install electric and hand power elevators. (See Mch. Wanted—Elevators, (Electric and Hand Power.)

Fla., Miami—Coconut Syrup, etc.—Tropical Fruit Conserving Co., Sam V. Aston,

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Mgr., 1444 W. Miami Ave. let contract for erection of building; 75x180 ft.; concrete block construction; cost about \$5000; install aluminum kettles, copper pressure cookers, etc., cost cost about \$3000; bids opened. (See Mch. Wanted—Kettles (Aluminum), etc.)

Fla., Tallahassee—Soap—Lathoral Soap Co., capital \$10,000, inceptd. by J. A. O'Berry, Robt. Hancock.

Ga., Macon—Bakery—R. A. McCord let contract to R. H. Stallings Macon, to construct bakery; 50x220 ft.; mill construction; composition roof; hard wood floors; steam heat; cost \$35,000; install freight elevator; Hagg & Shelverton, Archt.

Ky., Louisville—Candy—Discher Candy Co., capital \$50,000, inceptd. by Adeline Discher, Alice Discher, Fred Moellein.

Ky., Pineville—Bakery—Sanitary Bakery, capital \$10,000, inceptd. by J. W. Foley, Harry Petry, H. W. Holsworth.

La., Monroe—Sewing Machines—Singer Sewing Machine Co., 149 Broadway, N. Y., advises M. R. they have no intention of building plant in Louisiana.

La., New Orleans—Roofing Tile—Baldwin Petrinite Roof Tile Co., Enos Baldwin, Mgr., will install additional mch.

Md., Baltimore—Chemicals—Argol Sulphide Co., capital \$100,000, inceptd. by John H. Moran, F. Swift Gibson, Geo. A. Whiting; lately noted constructing plant at Curtis Ave. and Birch St., Curtis Bay; Whiting-Turner Construction Co., Stewart Bldg., Contrs.

Md., Baltimore—Bakery—Eugene E. Wagner will improve building 216 Garrison Lane for bakery.

Mo., Columbia—Bakery—L. F. Strong will erect bakery.

Mo., Ellington—Bottling—Geo. D. Addison, Propr. Salem Bottling Works, Salem, Mo., will install bottling plant.

Mo., Independence—Cereals—Good Morn Products Co. will erect plant; 3 stories and basement; face brick; modern lighting and ventilating.

Mo., Noesha—Ice Cream—Quality Ice Cream Co., capital \$5000, inceptd. by H. W. Wolfskill, J. M. Carnes, W. M. Hawk.

Mo., St. Louis—Bakery—Laclede Bakery Co., inceptd. by Jake, Marie and Henry Reutter.

Mo., St. Louis—Chemical—Eureka Chemical Corp., capital \$25,500, inceptd. by H. F. Mardorf, Byron Johnson, Gus Loeffel.

N. C., Shelby—Bakery—Bost Bakery, capital \$40,000, inceptd. by L. C. Bost, J. R. Morris.

N. C., Winston-Salem—Cigarettes—Bailey Bros., Inc., will open bids about July 15 for construction of plant lately noted; 5 stories; 60x150 ft.; reinforced concrete; cost \$125,000; install cigarette mch.; Lockwood, Greene & Co., 422 Piedmont Bldg., Charlotte, N. C., Engrs.

S. C., Greenville—Beverages—United Farley Co., capital \$100,000, inceptd. with M. V. Miller, Prest.; M. L. Berry, Vice-Prest., F. B. Morgan, Secy.; mfr. carbonic beverages.

S. C., Florence—Drugs—Pee Dee Drug Mfg. Co., inceptd. H. A. Kay, B. W. Butler, P. H. Arrowsmith.

S. C., Greenville—Maple Syrup—Harry Seuffert, Princess Cafe, contemplates the mfr. of maple syrup. (See Mch. Wanted—Bottles; Boxes (Crating); Labels, etc.)

Tenn., Nashville—Ice Cream—Union Ice Cream Co. has plans by Marr & Holman, for 3 story, reinforced concrete building at Broad St. and 5th Ave.; cost \$70,000.

Tenn., Tullahoma—Creamery—Tullahoma Co-operative Creamery Co., lately noted inceptd. with \$16,000 capital, organized with

John Martin, Prest.; J. A. Barton, V.-P.; John Lacy, Secy.; will construct creamery; cost about \$5000; install butter mfg. equipment. (See Mch. Wanted—Butter Mfg. Equipment.)

Tex., Austin—Radio—Texas Radio Corp., capital \$5000, inceptd. by J. B. Manor, E. E. Pierce, W. M. Wodos.

Tex., Beaumont—Bakery—Henry Stude, Prest., Texas Bread Co., Houston, will establish bakery.

Tex., Dallas—Drugs—Collins Drug Co., capital \$5000, inceptd. by Jos. C. Collins, Jeffrey D. Hay.

Tex., El Paso—Sal Soda—J. M. Booth Chemical Co., Joe M. Booth, Prest., enlarge plant.

Tex., Fort Worth—Radio—Mid-Continent Radio Corp., capital \$25,000, inceptd. by J. F. Dressing, M. Steele, J. C. Hecht.

Tex., Houston—Roofing—Hedges Roofing Co., capital \$10,000, inceptd. by S. H. Hedges, C. H. Neblett, W. F. Berry.

Tex., Houston—Bottling—Texas Bottling Co., capital \$15,000, inceptd. by O. F. Thompson, Lex Carmichael, Geo. Knigge.

Tex., Sherman—Ice Cream—Lyon-Jenson Ice Cream Co., capital \$35,000, inceptd. by W. M. Jensen, J. E. Jensen, H. A. Baxter.

Va., Charlottesville—Bottling—Charlottesville Coca Bottling Works, capital \$25,000, J. E. Crass Rich., Prest.; W. L. Sams, Staunton, Secy.

Va., Farmville—Ice Cream—Company organized with A. F. Howard, Prest.; B. Davidson, V.-P.; E. S. Martin, Secy.; purchased plant.

Va., Harrisonburg—Incubators—Newton Giant Incubator Co., will rebuild plant.

Va., Heathsville—Fish Scrap and Oil—Cheffrystone Fish Co., capital \$5000, inceptd. with T. H. Fallin, Coan, Va., Prest.; A. J. Lewis, Walnut Point, V.-P.; A. B. Garner, Lewisetta, Secy.; mfr. fish scrap and oil at plant of Cherrystone Oil & Guano Co.

Va., Norton—Mattress—Norton Mattress & Mfg. Co., H. M. Bandy, Prest., J. F. Arlington, Mgr.; erect building, 5 story; 50x100 ft.; fireproof, cost \$30,000; install felting mch., picker, opener, sewing machines, etc., approximate cost \$12,000. (Lately noted.)

Va., Richmond—Fibre Board—Fibre Board Container Co., D. J. Donati, Prest., 3200 Williamsburg Ave., will double capacity of plant.

Va., Staunton—Bottling—Staunton Coca Cola Bottling Works, capital \$50,000, inceptd. with J. E. Crass, Richmond, Prest.; W. L. Sams, Staunton, Secy.

W. Va., Wellsburg—Bag and Paper—Hammond Bag & Paper Co., lately noted inceptd. with \$500,000 capital stock, organized with T. H. Hammond, Prest.; D. A. Burt, V.-P., M. J. Davis, Secy.; will construct plant 500x120 ft.; fireproof; mfr. rope, paper, flour and cement bags.

### Motor Cars, Garages, Tires, Etc.

Fla., Jacksonville—Automobiles—Jacksonville Auto Exchange, capital \$50,000 inceptd. with Alton R. Colcord, Prest.; Howard F. Nowrence, Secy.

Fla., Jacksonville—Automobile Accessories—B-B Sales Co., capital \$50,000, inceptd. with C. E. Burgeon, Prest.; J. H. Brown, Secy.-Treas.

Fla., Jacksonville—Motor—Vinson-Nash Motor Co., capital \$20,000, inceptd. by C. E. Vinson, Prest.; Frank G. O'Neal, Secy.-Treas.

Fla., Jacksonville—Motors—Motor Co. of Fla., capital \$25,000, inceptd. with W. G. Wilson, Prest.; Frank W. Brown, Secy.-Treas.

Fla., Tampa—Garage—Dodd Motor Co. will occupy 105x105-ft., 1 story garage build-

ing at Marion and Jackson Sts., erected by August Muge.

La., Monroe—Motor Wheels—Motor Wheel Corp., main office Lansing, Mich., T. H. Wagner, local Mgr.; purchased 375x437-ft. site for plant expansion.

La., Shreveport—Garage Storage—Southwestern Gas & Electric Co., Box 1106, let contract to W. H. Werner, 501 Commercial Bank Bldg., at \$13,000 to construct 45x140-ft. fireproof, garage storage building. (Lately noted.)

Md., Baltimore—Garage—Wm. J. Tickner & Son, North and Pennsylvania Aves., let contract to Milton Davis & Son, 902 W. 36th St. at \$50,000 to erect 92x200-ft. public garage, concrete, slag roof, concrete floors, metal doors, steel sash and trim; Haskell & Barnes, Archt., Saratoga and Charles St.

Md., Baltimore—Service Station, etc.—Neill Buick Co., 107 West Mount Royal Ave., eased 3 story showroom and service station, remodel.

Md., Baltimore—Garage—Continental Garage & Service Corp., 715 Gaither Estate Bldg., increased capital to \$500,000.

Md., Baltimore—Garage—E. H. Koester, 648 W. Lexington St., let general contract to Adam Kratz, 118 S. Carrollton Ave. to erect 2 story, 40x80-ft. addition to garage, at 563 Josephine St.; John Freund, Archt., 1307 St. Paul St.

Md., Prince Frederick—Motors—Lusby Motor Co., inceptd. by Albert S. Campbell, Maurice T. and Lillian C. Lusby.

Miss., Jackson—Filling Station—Gulf Refining Co. of La. erect filling station at Pearl and S. Congress Sts.

Mo., Columbia—Garage—E. C. Clinkscales let contract to Simon Construction Co. to erect 80x142-ft. garage, \$50,000.

Mo., Kansas City—Garage—Kansas City Autosafe Co., capital \$100,000, inceptd. by H. B. Walker, W. C. Broughton and W. A. Rittenberg.

Mo., St. Louis—Automobile Equipment—Auto Equipment Co., capital \$25,000, inceptd. by Jos. E. McConnell, J. H. and A. H. Schreiber.

Mo., Springfield—Automobile Storage—Lloyd Auto Storage Co., 427 W. Olive St. (lately noted inceptd.) organized with O. E. Lloyd, Prest.; W. A. Fallin, Secy.; let contract to Wm. Burgin to remodel 160x300-ft. building.

N. C., Salisbury—Tires—Atlantic & Pacific Tire Stores Assn., capital \$15,000, inceptd. by W. C. Maupin, Salisbury; A. K. Buxton, Charlotte, N. C.; B. W. Culver, Macon, Ga.

Okla., Bristow—Motors—Bristow Motor Co., capital \$24,000, inceptd. by George S. Carman, M. V. Delano and C. D. Lacy.

Okla., Oklahoma City—Automobile Accessories—Moss Mfg. Co., 14 N. 7th St., has building, mch. all installed; contemplate adding addition in the fall.

S. C., Charleston—Motors—Franklin Motor Car Co., capital \$25,000, inceptd. by James J. Heffern, Prest.-Treas.; Robert C. Heffern, Secy.

S. C., Columbia—Filling Station—Gulf Refining Co. erect filling station on Gervaise St.

Tenn., Chattanooga—Garage—Hamilton Garage, capital \$15,000, inceptd. by W. E. Wilkerson, William D. Anderson and H. M. Rollins.

Tenn., Memphis—Batteries—Hydro Battery Co., of Tenn., Box 776, (lately noted inceptd. capital \$10,000), organized with J. B. Guthrie, Prest.; J. G. Bailey, Secy.-Treas.; G. J. Smith, Mgr.; make and repair batteries. (See Mch. Wanted—Battery Supplies.)

Tex., Corsicana—Garage—Jackson Bros. let



contract to W. H. King, Dallas, Tex., at \$30,000 to erect 100 ft. square, 2 story brick garage; J. A. Pitzinger, Archt., Dallas.

Tex., Dallas—Motors—Swalwell Motor Co., capital \$50,000, inceptd. by E. W. Marten, C. W. Swalwell and J. F. Reddish.

Tex., El Paso—Tires—Perry Tire Co., capital \$20,000, inceptd. by E. G. Perry, J. W. Kirkpatrick and S. A. Thompson.

Va., Harrisonburg—Garage—Wine Brothers, S. Main St., erect 2 story fireproof garage, \$40,000; excavation begun.

Va., Pulaski—Harris Motor Co., plans erecting garage at Washington Ave. and 4th St.

Va., Richmond—Motors—Stephens Motor Car Co., inceptd. with Lewis C. Williams, Prest.; M. Matthews, Secy.

W. Va., Princeton—Automobile Accessories—Princeton Automobile Accessories Co. (late-ly noted inceptd., capital \$10,000), organized with R. F. Forkner, Prest.-Mgr., Princeton; R. F. Forkner, Secy.-Treas., Roanoke, Va.; bid open on small brass castings, Fox lathes, buffing and melting outfits, light machine work on small brass castings. (See Mch. Wanted—Metal Polishing Equipment; Brass Melting Outfit; Lathes; Castings (Brass).)

### Railways.

La., Homer—Louisiana & Northwest Railroad Co., is reported contemplating construction of a branch. G. A. Campbell is Gen. Mgr. at Homer.

Tex., Byers—Wichita Falls & Oklahoma Railway Co. is authorized by the Interstate Commerce Commission to complete a branch from Byers, Tex., to Waurika, Okla., 13 mi. F. E. Clarity is V.-P. & Gen. Mgr., Fort Worth, Tex.

Tex., Freeport—Houston & Brazos Valley Railway is authorized by the Court to build a branch from Clute to Hoskins Mound, 13 mi. Geo. C. Morris is receiver at Freeport.

### Road and Street Construction.

Alabama—State Highway Comsn., Montgomery, Ala., plans constructing following: Shelby County, 23.09 mi. State Highway through county, from Jefferson County line to Chilton County line; cost \$529,484.67.

Chilton County, 34.31 mi. State Highway through county from Shelby County line to Autauga County line; cost \$580,460.67; bituminous macadam; Federal Aid Projects; W. S. Keller, State Highway Engr.

Ala., Birmingham—Jefferson County Board of Revenue, will construct 2 roads. For full detail see Mch. Wanted—Road Construction.

Ala., Birmingham—City and Jefferson County Board of Revenue, 2 mi. Pratt City—Ensley road; combined curb and gutter; concrete foundation; bituminous paving; A. J. Hawkins, City Engr.

Ala., Huntsville—State Highway Comsn., Montgomery, Ala., plans constructing highway from Huntsville to Marshall County line; construct concrete bridges.

Ala., Mobile—Mobile County Board of Revenue and Road Comms., Thos. B. Allman, Clk., let contract to E. P. Toulmin to construct 5.34 mi. clay gravel surfaced road on Lott road from St. Stephens road to 13 mile post.

Ala., Mobile—Mobile County Comms., plans clay gravel surfacing Moffat road to intersection of Grand Bay and Wilmer roads at Wilmer, and 1 mi. Grand Bay road.

Ala., Mobile—Mobile County Board of Revenue and Road Comms., will construct 3 roads. For full detail see Mch. Wanted—Road Construction.

Ala., Mobile—City let contract to Southern Roads Co., Birmingham, to construct 2 mi.

asphalt paving on Government St., and to Hancock Bros., Mobile, to construct 1 mi. street paving on Water and Royal Sts.; total cost \$76,000. Address The Mayor.

Ark., Little Rock—City, Mayor Brickhouse, plans repaving Main St. from Markham to 5th Sts.; asphalt on concrete and bituminous concrete base; Jas. H. Rice, City Engr. for Dist.

Ark., Pine Bluff—City Comms., Street, Curb and Gutter Improvement Dist., No. 57, let contract to H. E. Monk, at \$48,522.41 to pave 18 blocks, including 14th, Oak, Beech, 11th and 13th Sts.; 6-in. reinforced concrete paving; concrete curb and gutters.

Fla., De Land—State Road Dept., Tallahassee, Fla. For full detail see Mch. Wanted—Road Construction.

Fla., Homestead—For full details see Electric Plants.

Fla., Jacksonville—City Comsn., plans expending about \$250,000 to pave following: Adams, 8th and Jefferson Sts., brick on 6-in. concrete; Ashley, Palmetto, Beaver, 6th, 10th, Herschell, Stockton Sts.; etc.; bitumin on 6-in. concrete; Cedar, King, Park Sts., St. Johns Ave., etc., asphalt on 6-in. concrete; resurface old brick with asphalt, Ashley, Julia, Forsyth, etc.

Fla., St. Augustine—St. Johns County Comms., let tentative contract to James Y. Wilson Construction Co., at \$456,472.79 for 50 mi. hard surfaced road in county; contingent upon bond issue to be voted soon.

Fla., Winter Haven—Town. For full detail see Mch. Wanted—Paving.

Ga., Albany—Dougherty County Comms., will pave 8 mi. Dixie Highway from below Albany to Mitchell County line; cost \$64,000; State Highway Comsn. to pay half.

Ga., Savannah—City. For full details see Mch. Wanted—Paving.

Ga., Atlanta—City, Chas. L. Chosewood, Chrmn. Streets Committee, plans expending \$1,000,000 to pave 6 mi. streets, including Marietta, Decatur, Hurt, Grant Sts., Lucile and Glenwood Aves.

Ga., Augusta—City, W. H. Wise, Engr. and Commr. Public Works, construct cement sidewalks and concrete curb and gutters on Poplar and Cottage Sts.; bids opened; J. W. Westmoreland, Clerk.

Ga., Washington—State Highway Dept., Augusta, Ga., let contract to Nichols Contracting Co., Atlanta, for 8 mi. sand clay road and 2 concrete bridges in Wilkes County, between Washington and Tignall.

Kentucky—State Highway Comsn., Frankfort, Ky., will construct following:

Rowan County, 10 mi. Midland Trail from Morehead to Carter County line; grade and drain; Federal Aid Project.

Estill County, 4½ mi. Richmond-Irving road; State Aid Project.

Harlan County, 6 mi. Harlan-Wallins Creek road; grade and drain; State Aid Project; bids until June 5 for following:

Madison County, 4 mi. surface treatment on Irvine-Richmond road.

Todd County, 4 mi. surface treatment on Hopkinsville road;

Scott County, reconstruct 3 mi. Georgetown-Frankfort road.

Lincoln County, reconstruct 14½ mi. Somerset road; counties to pay half cost; Green Garrett, Chrmn. Highway Comsn.

Ky., Catlettsburg—State Highway Dept., Frankfort, Ky., construct Mayo Trail, from Ashland to Jenkins, Ky.

Ky., Henderson—City plans paving about 20 blocks; Clay F. Hall, Mayor; John A. Cunningham, Commr. Public Works and Property.

Ky., Hindman—Town and Knott County plan constructing highway to connect with

Hindman. Address Mayor or County Commissioners.

La., Baton Rouge—Louisiana Highway Comsn., let contract to White & Denham, at \$15,250, to construct 12½ mi. roads in 3rd ward.

Maryland—State Road Comsn., 601 Garrett Bldg., Baltimore, Md., opened bids for following:

Queen Annes County, 2.10 mi. State Highway from Carville to Centerville; low bidder, J. K. Flick, Sudlersville, Md., at \$42,516.

Caroline County, 1.5 mi. Bridgetown road; low bidder, Phillips & Seal, Hurlock, Md., at \$30,771.

Dorchester County, 1.73 mi. State Highway from New Market to Secretary; low bidder, J. K. Wetter, Salisbury, Md., at \$36,007.

Baltimore City, 1.87 mi. State Highway along Falls Road between Maryland Ave. and 36th St.; sheet asphalt; low bidder, Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., Baltimore, at \$103,776.

Maryland—State Road Comsn., 601 Garrett Bldg., Baltimore, Md., will construct 4 roads. For full detail see Mch. Wanted—Road Construction.

Md., Baltimore—City. For full detail see Mch. Wanted—Paving.

Md., Baltimore—City. For full detail see Mch. Wanted—Paving.

Missouri—State Highway Dept., Jefferson City, Mo., plans constructing following:

Barry County, 7.396 mi. State road from Monett to Eureka Springs; gravel surface; 12-ft. wide; Federal Aid Project No. 124; H. P. Mobberly, Div. Engr., Woodruff Bldg., Springfield, Mo.

Henry County, .201 mi. State road from Windsor to Clinton; Federal Aid Project No. 133, Section B; S. M. Rudder, Div. Engr., Hgenfriz Bldg., Sedalia, Mo.

Putnam County, 6.337 mi. State road from Unionville eastward; State Aid Project No. 20,167; M. J. Hamick, Div. Engr., Howe Bldg., Macon, Mo.; grade, construct drainage structures, guard rail, etc.

Missouri—State Highway Dept., Jefferson City, Mo. let contracts for following:

Schuyler County, 4.98 mi. State road from Lancaster eastward and westward; State Aid Project No. 20,144; to Cameron-Joyce & Co., Keokuk, Iowa, at \$16,369.90.

Salline County, 2.694 mi. State road from Miami to Marshall and from Sedalia to Marshall; State Aid Project No. 20,148; to Diemer-Williamson Construction Co., Brookfield, Mo., at \$20,950.40.

Scotland County, 4.939 mi. State road from Memphis northward and southward; State Aid Project No. 20,108; to M. H. and G. H. Turner, Wyandona, Mo., at \$23,449.17.

Taney County, .587 mi. State road from Forsyth to Branson; Federal Aid Project No. 163; to Highway Construction Co., Springfield, Mo., at \$10,542.84; grade, construct drainage structures, etc.

Missouri—State Highway Dept., Jefferson City, Mo., construct 2 roads. For full detail see Mch. Wanted—Road Construction.

Mo., Cameron—City plans paving E. 5th St. Address The Mayor.

Mo., Cassville—State Highway Dept., Jefferson City, Mo., let contract to S. I. Williams, Monett, Mo., at \$12,104.61 for 3.3 State Highway in Wheaton Special Road Dist.; Barry County, State Aid Project No. 20,134.

Mo., Clinton—State Highway Dept., Jefferson City, Mo. For full detail see Mch. Wanted—Road Construction.

Mo., Fredericktown—State Highway Dept., Jefferson City, Mo., will construct 16.391 mi. State road from Farmington to Fredericktown and Greenville; gravel surface; grade,

construct drainage structures, riprap, guard rail, etc.; Federal Aid Project No. 101, Section B; M. S. Murray, Div. Engr., Sikeston, Mo.

Mo., Harrisonville—State Highway Dept., Jefferson City, Mo. For full detail see Mch. Wanted—Road Construction.

Mo., Kansas City—Park Board let contract to H. H. Hanenkratt, at \$11,389, to grade Mall in Swope Park.

Mo., Kansas City—City, Board of Public Works, let contract to W. C. Mullins Construction Co., at \$30,053.24, to construct plain concrete pavement on 59th St. from Prospect to Indiana; and construct bituminous macadam pavement on Crittenden between Jackson and Elmwood, at \$8644.24.

Mo., Kansas City—City, Park Board, will pave Van Brunt boulevard between Independence Ave. and 9th St.

Mo., St. Joseph—State Highway Dept., Jefferson City, Mo. For full detail see Mch. Wanted—Road Construction.

Mo., Stockton—State Highway Dept., Jefferson City, Mo. For full detail see Mch. Wanted—Road Construction.

Mo., Marshall—Saline County will construct paved streets in county; votes June 2 on \$300,000 bonds. Address County Commrs.

Miss., Jackson—Hinds County Highway Comsn. For full detail see Mch. Wanted—Road Construction.

North Carolina — North Carolina State Highway Comsn., Raleigh, N. C., will construct following projects:

No. 105B—Beaufort County, 5 mi. hard surface road from end pavement E. of Washington toward Belhaven.

No. 105A—Beaufort County, 2 mi. hard surface road from Belhaven to Leechville.

No. 115—Chowan-Perquimans Counties, 12.5 mi. Edenton to Hertford.

No. 126—Edgecombe County, 8.35 mi. Williamson road from Tarboro to Pitt County line.

No. 127—Edgecombe County, 12.2 mi. Tarboro to Halifax County line.

No. 128—Edgecombe County, 17.4 mi. Farmville road from Tarboro to Pitt County line.

No. 129—Edgecombe County, 8.1 mi. from Road No. 12 near Crisp to Wilson County line.

No. 134—Gates County, 16.5 mi. from Chowan County line to Virginia State line, via Sunbury.

No. 141—Halifax-Edgecombe Counties, 20.1 mi. from Whittakers to Halifax.

No. 147—Hertford-Bertie Counties, 16.8 mi. from Winton to Aulander.

No. 177—Perquimans-Chowan Counties, 13.5 mi. Winfall to Edenton-Sunbury road, via Belvedere.

No. 188—Pitt County, 10.7 mi. Farmville road from Edgecombe County line to Greene County line.

No. 212—Craven County, 2.8 mi. from Havelock to Carteret County line.

No. 220—Duplin County, 16 mi. hard surface road from Wayne County line to Warsaw.

No. 273—Sampson County, 9 mi. paving from Clinton to Williamson's store.

No. 282—Wayne County, 13 mi. hard surface road from Goldsboro to Duplin County line.

No. 293—Wilson County—8 mi. hard surface road from end pavement E. of Wilson to Greene County line.

No. 328—Columbus County, 7 mi. hard surface road from Whiteville to Chadbourne.

No. 342—Cumberland County, 6 mi. hard surface road from Hope Mills to Fayetteville.

No. 351—New Hanover County, 8.8 mi. resurfacing road from Wilmington to Castle Haven.

No. 437—Harnett County, 11 mi. road from Lillington to Duke.

No. 438—Harnett County, 4 mi. hard surface road from Duke to Dunn.

No. 486—Wake County, 9 mi. road from Apex to Chatham County line.

No. 421—Franklin County, 9.5 mi. hard surface from Franklinton to Wake County line.

No. 431—Granville County, 4 mi. from Berea to Person County line.

No. 446—Lee County, extend hard surface road.

No. 602—Alexander County, penetration macadam pavement of road from Taylorsville Iredell County line.

No. 608—Anson County, 8 mi. hard surface road from Wadesboro to Polkton.

No. 640—Iredell County, 8.1 mi. penetration macadam road from Alexander County line to Hickory road.

No. 641—Iredell County, 8 mi. hard surface road from Statesville to Little Yadkin River.

No. 643—Iredell County, 8 mi. hard surface road from Statesville to Rowan County line.

No. 644—Iredell County, 2 mi. hard surface road from Statesville to end project No. 640.

No. 714—Ashe County, 7.5 mi. road from West Jefferson to Baldwin.

No. 721—Caldwell County, road from Lenoir to Wilkes County line.

No. 723—Caldwell County, reconstruct Lenoir-Blowing Rock turnpike.

No. 762—Surry County, 5.1 mi. hard surface road from Mt. Airy to Fancy.

No. 763—Surry County, road from Mt. Airy to Stokes County line, via Pilot Mountain.

No. 764—Surry County, 2 mi. hard surface road between old and new Westfield roads, through Pilot Mountain.

No. 765—Surry County, hard surface road from Yadkin County line through Elkin to Dobson road.

No. 540—Guilford County, reconstruct shoulders on Greensboro-High Point road.

No. 546—Hoke County, .5 mi. pavement in Raeford.

No. 770—Watauga County, 11.5 mi. road from Boone to Caldwell County line.

No. 771—Watauga County, 14 mi. from Boone to Tennessee line.

No. 943—Haywood County, 12.7 mi. reconstruction from Juanaluska to Fines Creek.

No. 973—Madison County, 17 mi. road from Mars Hill to Sans Gap, at Tennessee line.

North Carolina—State Highway Comsn., Raleigh, N. C. let contracts for following projects:

No. 110—Pasquotank County, 2.71 mi. hard-surface road between Elizabeth City and Camden County line, to J. L. Gehee, at \$117,364.30; structures, to G. E. Ward, at \$18,626.55.

No. 340—Cumberland County, 11.07 mi. hard surface road between Fayetteville and Hoke County line, to Alabama Concrete Products Co., at \$334,714.55; structures, to Hobbs-Peabody Construction Co., at \$11,004.

No. 312—Brunswick County, 9.77 mi. hard surface road from Leland to Columbus County line, to Alabama Concrete Products Co., at \$302,834; structures, to Batson-Cook Co., at \$14,372.30.

No. 316—Brunswick County, 12.12 mi. gravel road on Wilmington-Charlotte-Asheville road, to B. F. Price, at \$45,115; structures, to Batson-Cook Co., at \$25,133.65.

No. 364-B—Onslow County, 12.84 mi. gravel road between Dixon and Jacksonville to A. W. McClay, at \$49,452.80 and for structures, at \$40,432.75.

No. 502—Alamance County, 17.43 mi. gravel road between Graham and Randolph Counties, to W. N. Thompson, at \$67,939.10; structures, to Hanford Bros., at \$62,078.75.

No. 545—Hoke County, 9.20 mi. gravel road between Raeford and Scotland County

line, to A. W. McClay, at \$35,347.80; structures, \$16,281.

No. 593—Rockingham County, 17.60 mi. hard surface road between Reidsville and Virginia State line, to J. A. Krees, at \$447,630.20.

No. 614—Cabarrus County, 9.20 mi. hard surface road from Concord to Mecklenburg County line, to G. L. Harris, at \$280,845.20; structures, to Oliver-Costello Bros., at \$37,703.95.

No. 670—Cabarrus-Rowan Counties, 4.53 mi. hard surface road from Kannapolis to Luthers' Church, to Southern Construction Co., at \$128,642.60.

No. 741—Forsyth County, 8.90 mi. hard surface road between Hanes and Davie County line, to Hardaway Construction Co., at \$265,041.60; structures, to Mills-Williams Construction Co., at \$21,036.63.

No. 742—Forsyth County, 10.62 mi. hard surface road on Boone trail, from Winston-Salem to Yadkin River, to A. J. Wardrup, at \$384,399.70; structures to Stearnes Bros., at \$15,136.16.

No. 888—Yancey County, 15.22 mi. hard surface road from Swiss to South Toe River, to R. S. Freeman, at \$97,970; structures at \$42,933.60.

No. 913—Cherokee County, 10.33 mi. waterbound macadam road from Murphy to Georgia County line, to Mills-Williams Construction Co., at \$86,868.

No. 953—Jackson County, 12.72 mi. grade and construct bridges from Dillsboro to Macon County line, to C. C. McCabe, at \$87,715; structures to A. E. Wilson, at \$17,997.50.

No. 954—Jackson County, 1.68 mi. hard surface road between Sylva and Dillsboro to Mills-Williams Construction Co., at \$66,764.30; structures, at \$15,676.

N. C., Asheville—City Commrs., let contract to Asheville Paving Co., at \$125,000, to pave Southside Ave. with 7-in. concrete base, and Biltmore Ave. with 6-in. concrete base.

N. C., Charlotte—City, Edgar Reed, Clk., will expend \$20,000 to construct underpass on E. 4th St., between College and Brevard Sts.; construct bridge; W. S. Stancil, Commr. Public Works.

N. C., Graham—Alamance County Highway Comsn. For full detail see Mch. Wanted—Road Construction.

N. C., Greensboro—City, P. C. Painter, Mgr., let contract Murray Construction Co., to pave 180,000 sq. yds. street paving; asphalt, concrete, brick, durax; bids in about 30 days for 70,000 sq. yds.; \$700,000 available; Geo. E. Finck, Highway Engr. (See Mch. Wanted—Paving.)

N. C., Hendersonville — State Highway Comsn., Raleigh, N. C., will construct 15 mi. hard surface road from Bat Cave, Henderson County, to Mine Hole Gap in Buncombe County; little more than 7 mi. in each county; penetration macadam or macadam; Federal Aid Project No. 901; cost \$350,000; bids opened about Aug. 1; J. G. Stickleather, 9th Dist., Highway Commrs.

N. C., Lenoir—City will improve certain streets; Ludlow Engineering Co., Engr., Winston-Salem, N. C.

N. C., Wilmington—City Comsn., plans paving Princess St. from 10th to 17th.

Okla., Ardmore—Carter County will construct 6 mi. hard surface road from Ardmore to Amerade oil field in Criner Hills; crushed limestone rock and gravel; Joe Taylor, County Commr.

Okla., Kaw City—City let contract to pave 13 blocks Main St.; brick. Address The Mayor.

Okla., Kingfisher—City, Ada L. Stetler, Clk., let contract to Harry Tidd, Hutchinson,

Kansas, at \$71,630.73, to grade and construct one course cement concrete paving, curb and gutter on 16 blocks; Black & Veatch, Mutual Bldg., Kansas City, Mo.

Okl., Oklahoma City—Oklahoma County Comms., Ed. S. Butterfield, Chrmn., let contract to Beekman Construction Co. to construct 4½ mi. Edmond road; 5-in. concrete base; 3-in. vertical fiber brick surface; will improve Choctaw road; extend New Castle road 6 mi.; plans hard surfacing W. 39th St.

S. C., Hampton—State Highway Dept., Columbia, S. C. For full details see Mch. Wanted—Road Construction.

S. C., Abbeville—Abbeville County Highway Comms., construct 2 roads. For full detail see Mch. Wanted—Road Construction.

S. C., Beaufort—City. For full detail see Mch. Wanted—Paving.

S. C., Marion—Town. For full detail see Mch. Wanted—Paving.

S. C., Winnsboro—Fairfield County Highway Comsn. For full details see Mch. Wanted—Road Construction.

Tenn., Nashville—Davidson County Comms., will improve streets, etc.; vote June 22 on \$375,000 bonds; S. H. McKay, City Clk.

Tenn., Columbia—Maury County Comms. let contract to J. C. Moore, at \$8000 to construct 7800 sq. yds. rock asphalt highway; county work house forces assist in construction; F. B. Wilkes, Supt. Highways. (See Mch. Wanted—Paving Materials; Paving Equipment.)

Tenn., Jacksboro—Campbell County Highway Comms., will construct 12 roads. For full detail see Mch. Wanted—Road Construction.

Tenn., Kingston—Reane County will let contract soon to construct road through county; address County Comms.

Tenn., Lenoir City—City, S. H. Monger, Recorder, let contract to R. M. Calloway, at \$14,151.57, to pave, grade, curb and gutter Improvement Dists. Nos. 9, 10 and 11; Bank, Depot Sts. etc.; concrete.

Tenn., Loudon—State Highway Comsn., Nashville, Tenn., will construct 4 mi. Dixie Highway through Loudon County; bids invited soon.

Tenn., Nashville—City, Felix Z. Wilson, Mayor, plans expending about \$350,000 to pave 8½ mi. permanent streets, including Buchanan, S. 2nd, Hayes, Terrace Place, 7th, Shelby, S. 10th, Montrose, S. 19th St., etc.

Tex., Anahuac—Chambers County plans constructing 15 mi. hard surface road from Beaumont to High Island.

Tex., Anson—Jones County Comms. Court will construct roads in Stamford, Avoca and Lenders; vote June 24 on \$400,000 bonds. Address E. S. Cummings, County Judge, Anson, Tex., or Homer D. Wade, Secy., Chamber of Commerce, Stamford, Tex.

Tex., Ballinger—Runnels County, U. Stephens, County Engr., let contract to G. B. Heath, Midlan, Tex., and Ed Shelton, Temple, Tex., at \$65,000, to construct 10 mi. gravel surfaced highway. (See Mch. Wanted—Paving Materials; Road Oiling Equipment.)

Tex., Ballinger—U. S. Dist. Engr., Fort Worth, Tex., approved plans to construct 9.8 mi. 16-ft. gravel road between Ballinger and Taylor County line; Runnels County Federal Aid Project No. 267; cost \$65,310; P. Tremmier, County Judge; U. Stephens, County Engr.

Tex., Belton—Bell County plans additional improvement on Meridian Highway; cost \$177,120.80; J. W. Sutton, County Judge; S. J. Treadway, County Engr.

Tex., Beaumont—Jefferson County. For

full details see Mch. Wanted—Road Construction.

Tex., Bonham—Fannin County plans constructing 7.43 mi. concrete road on State Highway No. 5, east and west through Honey Grove; cost \$256,000.

12.65 mi. asphalt macadam on stone base, and 6.1 mi. sand-clay surface roads on State Highway No. 38, north and south through Honey Grove; total cost \$285,000; A. P. Bolding, County Judge; A. J. Goode, County Engr.

Tex., Breckenridge—City. For full detail see Mch. Wanted—Paving.

Tex., Brownsville—Cameron County Comms. Court, will improve highways; vote June 24 on \$350,000 bonds; Oscar C. Dancy, County Judge; W. O. Washington, County Engr.

Tex., Brownsville—Cameron, Starr, Hidalgo and Zapata Counties plans constructing hard surface road from Brownsville to Laredo; concrete, asphalt and bitulithic; State and Federal Aid; cost \$3,525,000; Cameron County, vote June 10 on \$750,000 bonds; Starr and Zapata Counties vote in June on bonds; W. O. Washington, County Engr., Brownsville; P. S. Devine, Hidalgo County Engr., Edinburg, Tex.

Tex., Cisco—City will pave streets; voted \$100,000 bonds; J. N. Williamson, Mayor; H. E. Elrod Co., Const. Engr., Dallas, Tex.

Tex., Clarksville—Red River County plans constructing 2.51 mi. 12-ft. gravel surfaced road on State Highway No. 5; cost \$17,900; R. J. Williams, County Judge; J. E. Riegan, Res. Engr.

Tex., Daingerfield—Morris County, plans constructing 2.8 mi. 15-ft. gravel road on State Highway between Naples, Tex., and County line; J. W. Carson, County Judge; Jas. V. Curnutt, County Engr.

Tex., Decatur—Wise County will grade clay and construct reinforced concrete steel drainage structures on 20.7 mi. State Highway No. 2, from Decatur to Montague County line; cost \$88,000; invite bids soon; W. D. Paschal, County Judge; Lloyd W. Taylor, County Engr.

Tex., Decatur—Wise County Comms. Court, Road Dist. No. 2. For full detail see Mch. Wanted—Road Construction.

Tex., Denton—Denton County let contract to E. P. McElwrath, Corsicana, Tex., to construct gravel surface roads and concrete drainage structures in Krum Road Dist.; 150,000 cu. yds. grading; 20,000 cu. yds. gravel surfacing; 1500 cu. yds. concrete 120,000 lbs. reinforced steel; Ed. I. Key County Judge; T. E. Huffman, County Engr.

Tex., Fort Worth—Tarrant County let contract to D. H. Purvis and W. T. Lowry to grade and gravel Mansfield-Britton road and Arlington-Webb-Britton road; total 15 mi.; and to McCoy and Richards for Polytechnic-Webb road, 14 mi.; total cost \$113,485.26; Hugh L. Small, County Judge; R. V. Glenn, County Engr.

Tex., Franklin—Robertson County will improve highways in Road Dist. No. 7; \$150,000 bonds approved; Joe Reid, County Judge; Lamar Acker Co., Engr., Nacogdoches, Tex.

Tex., Georgetown—U. S. Dist. Engr., Fort Worth, Tex., approved plans to construct 5.4 mi. 16-ft. gravel bituminous road on Meridian Highway from Hutto to Hutto Precinct line; Federal Aid Project No. 256; cost \$73,000; F. D. Love, County Judge; R. A. Nichols, County Engr.

Tex., Georgetown—City, plans constructing 7 mi. street paving; \$85,000 bonds available; John Sharp, Mayor; W. N. Harris, City Engr.

Tex., Gonzales—State Highway Dept., Aus-

tin, Tex., approved plans to construct 9.3 mi. gravel road on State Highway No. 29; 15-ft. wide; Gonzales County; \$64,000; J. C. Romberg, County Judge; Chas. E. Tom, County Engr.

Tex., Groveton—State Highway Dept., Austin, Tex., approved plans to construct 16.3 mi. 16-ft. gravel road on State Highway No. 19; Trinity County; cost \$205,500; bids in near future; Fred J. Berry, County Judge; W. J. Kelly, County Engr.

Tex., Henrietta—Clay County Comms. plans construct 35 mi. graveled roads from Byers; voted bonds.

Tex., Houston—Harris County will expend \$26,000 to surface 2.05 mi. Galveston road from Ellington Field to Webster; macadam base; bituminous top; Howe & Wise, County Engrs., 812 First National Bank Bldg.

Tex., Houston—City, O. F. Holcombe, Mayor, plans widening and paving Washington Ave. from 5th to Wichman Sts. and Preston Ave., and Harrisburg Boulevard to Milby St.; plans expending about \$22,000 to pave Richmond road.

Tex., Linden—Cass County let contract to C. W. Burgess, 501 Dallas County, State Bank Bldg., Dallas, at \$7604.54 to gravel surface 1.2 mi. State Highway No. 1-B; Federal Aid Project No. 148-B; material furnished by county; Henry D. Nelson, County Judge, Linden; Hess & Skinner, County Engrs., Southwestern Life Bldg., Dallas, Tex.

Tex., Marshall—State Highway Dept., Austin, Tex., approved plans to construct 14.3 mi. 12-ft. gravel road on State Highway No. 8; Harrison County; cost \$130,000; bids opened soon; W. H. Strength, County Judge; Geo. A. McClellan, County Engr.

Tex., McKinney—Collin County, will construct 5 roads. For full detail see Mch. Wanted—Road Construction.

Tex., McKinney—Collin County. For full detail see Mch. Wanted—Road Construction.

Tex., Pecos—Chief Engr., U. S. Bureau of Public Works, Washington, D. C., approved plans to construct 13.5 mi. 16-ft. gravel and caliche surface road, between Toyahvale and County line; Reeves County, Federal Aid Project No. 240; cost \$54,778; J. F. Ross County Judge; A. J. Adcock, County Engr., Grandfalls, Tex.

Tex., Robert Lee—Coke County plans highway improvements, including road from Blackwell to Bronte, and from Bronte to Robert Lee; \$57,000 bond issue available E. J. Stockton, County Judge.

Tex., Sequin—Guadalupe County, Road Dist. No. 5, will expend \$90,000, to hard surface 19½ mi. road in county; J. B. Williams, County Judge; State Highway Engr. in charge.

Tex., Tyler—City, H. J. Graesser, Mayor will expend \$29,000 to construct 9000 sq. yds street paving; vitrified brick on 9-in. water bound macadam; city construct base; may contract for surface; S. H. Bothwell, Engr (See Mch. Wanted—Paving Materials.)

Va., Alexandria—State Highway Comsn., Richmond, Va., let contract to J. E. Lane & Co., Altavista, Va., to construct 11.32 mi. one course concrete road between Alexandria and Fairfax; build bridge; total cost \$329,805.65; J. C. Albright, Engr.; G. P. Coleman, State Highway Engr.

Va., Barton Heights, P. O., Richmond—City has tentative plans for improving streets, bridges, sewers, buildings, etc.; \$1,500,000 available; Stewart White, Councilman; improve Stuart road from North Ave. to Chamberlayne, and Barton from Poe St. to Boulevard.

Va., Big Stone Gap—Town, let contract to Finnaken Construction Co., Knoxville, Tenn.,



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at \$100,000, to construct 2.6 mi. concrete pavement; 15-ft. wide; Horace E. Fox, Town Engr.

Va., Richmond—Henrico County Board of Suprs. For full detail see Mch. Wanted—Road Construction.

Va., Rockymount—Franklin County Super visors will construct road from Sontag to Henry County line, via Snow Creek; plans issuing \$50,000 bonds.

W. Va., Bluefield—City will improve 8th St. and Highland Ave., between 8th and 9th; rock base; limestone surface. Address The Mayor.

W. Va., Clarksburg—City let contract to Keeley Co., at \$28,812, to pave E. Main St. from Monticello Ave. to Goff Plaza bridge. Address The Mayor.

W. Va., Clarksburg—City. For full detail see Mch. Wanted—Paving.

W. Va., Huntington—City, Mat Miser, Commr. Streets and Sewers, will pave 5th Ave., from 8th to 9th Sts.; 4400 sq. yds.; 90-ft. wide, 20-ft. sidewalks; 4-in. vitrified brick; 1½-in. sand cushion; 6-in. concrete base and asphalt; contract let to James Doyle, at \$17,158; also let contract to L. J. Gillespie, at \$7113, to pave 1st and 2nd Sts.; A. B. Maupin, City Engr.

### Sewer Construction.

Ala., Brewton—For full detail see Mch. Wanted—Sewer Construction.

D. C., Washington—For full details see Mch. Wanted—Sewer Construction.

D. C., Washington—Dist. Comms., let contract to Adam McCandlish, 1215 Harward St., Washington, to construct 1350 ft. of pipe sewers, and to Brus Pizzimenti, Hyatts-ville, Md., for 2165 ft. pipe sewers; approx. cost \$5000; J. B. Gordon, Sanitary Engr., Washington, D. C.

Fla., Plant City—For full details see Water Works.

Fla., Winter Haven—For full details see Mch. Wanted—Sewer Construction.

Ky., Henderson—City, John A. Cunningham, Commr. Public Works and Property, contemplates constructing complete system of sewerage; preliminary plans being prepared; bids called for in about 60 days.

Ky., Paducah—For full details see Mch. Wanted—Sewer Construction.

Md., Baltimore—For full detail see Mch. Wanted—Sewers and Drains.

Md., Baltimore—Board of Awards, Wm. Broening, Prest., let contract to M. J. Beach Co., Calvert Bldg., to construct Govans sewers, and to A. J. Boyle, 2307 Whitmore Ave., to construct Hampden and Irvington sewers

Md., Baltimore—City, Board of Awards, Wm. Broening, Mayor, will open bids soon for storm water sewers to drain new city park in western section of city, also for storm water drainage for stadium in Venable Park.

Mo., Cape Girardeau—City will let contract in about 30 days for construction of West End sewer; plans by C. E. Smith & Co., St. Louis. (Lately noted.)

Mo., Carthage—City will receive new bids for construction of sewers in Districts No. 41 and 50; cost approx. \$10,000. Address The Mayor.

N. C., Madison—For full details see Water Works.

Okla., Henryetta—City let contracts for improvements to sewer system as follows: at \$26,700 to I. E. Hanson, Ada. Okla., for furnishing material and installing sanitary sewer system; at \$72,000 to Park & Moran, Okmulgee, Okla., for material, consisting of segment sewer blocks for installation of storm sewer mains; at \$41,900 to Merkle Machinery

& Contracting Co., Kansas City, Mo., to install sewage disposal plant.

Okla., Oklahoma City—For full details see Mch. Wanted—Sewer Construction.

S. C., Marion—For full detail see Mch. Wanted—Sewer Construction.

Tex., Center—City, J. W. Shotwell, Mgr., let general contract for sewer system to Kroeger & Hayner, San Antonio; cost \$26,800; cost of disposal plant \$4300; E. E. Sands, Houston, Engr., in charge.

Tex., Houston—For full details see Mch. Wanted—Sewer Construction.

Tex., El Paso—For full details see Mch. Wanted—Sewer Construction.

Tex., Palacios—For full details see Mch. Wanted—Sewer Construction.

Tex., Pampa—For full details see Water Works.

Tex., Tulla—City will extend and improv sewer system; W. D. Howser, Amarillo, Tex. Const. Engr.

Tex., Van Alstyne—For full details see Mch. Wanted—Sewer Construction.

Va., Barton Heights, P. O. Richmond—City has tentative plans for improving sewers, streets, fire house, etc.; \$150,000 available; Stewart White, Councilman.

W. Va., Clarksburg—For full details see Mch. Wanted—Sewer Construction.

W. Va., Ronceverte—City let contract to R. L. Wright, Ronceverte, to construct storm sewer.

### Telephone Systems.

Ark., Little Rock—Arkansas Light & Power Co., H. C. Couch, Prest., install radio plant at Picon plant, 100 k.w. power, sending radius from 250 to 1000 mi. with wave length of 360 meters for broadcasting and 500 meters for private communications; probably install station at plants at Stuttgart, Russellville, Arkadelphia and El Dorado.

Tex., Dallas—Dallas Telephone Co., 4246 Irving St., erect brick and concrete addition, \$17,500.

### Textile Mills.

Ga., Columbus—Spinning—Swift Spinning Mills has plans by C. R. Makepeace & Co., Providence, R. I., for extension to spinning mill.

Md., Baltimore—Nightwear—Faultless Nightwear Corp., capital \$1,675,000, chartered by Geo. M. Harsh, Leon Lauer, Jr., Noah Dillenberg, New York, to take over business of E. Rosenfeld & Co., 32-34 S. Paca St.; contemplate expansion.

N. C., Charlotte—Textile Mill Supply Co. and Charlotte Mfg. Co., let contract at \$35,800 to E. H. Clement & Co. to erect building; brick and timber; mill construction 30,000 ft. floor space.

N. C., Ramsauer—Brown Sheetting—Columbia Mfg. Co., I. F. Craven, Treas., will install 132 looms, steam and electric plant; daily capacity 15,000 yds. brown sheeting; Draper Corp., Hopedale, Mass and General Electric Co., mch. contractors, J. E. Slirrine & Co., Greenville, S. C., engr. in charge.

S. C., Clover—Cotton—Hawthorne Spinning Mill, Thomas McConnell, Northampton, Mass., Prest. reported interested in \$1,000,000 cotton mill; 20,000 spindles.

S. C., Spartanburg—Cotton—Whitney Mfg. Co., A. S. Thomas, Prest., increased capital to \$700,000.

Tenn., Chattanooga—Spinning—J. T. Lupton, J. T. and J. F. Harrison purchased big site and will erect plant; mill construction; fireproof; first unit will have capacity of 10,000 spindles; construction in 60 days;

ultimate capacity 150,000 spindles; cost \$400,000.

### Water Works.

Ark., Russellville—City contemplates erecting water and light plant. Address The Mayor.

Fla., Auburndale—City, W. L. Mason, Clk., construct water works; voted \$30,000 bonds.

Fla., Homestead—For full details see Electric Plants.

Fla., Tampa—For full detail see Miscellaneous Construction.

Fla., Plant City—City, W. E. Lee, Mayor, will extend water mains and improve water works system, voted \$21,000 bonds, extend and improve sewer system voted \$15,000 bonds, improve fire protection equipment, voted \$12,000 bonds.

Fla., Seabreeze—City let the following contracts for water works improvements, water softening plant to International Fibre Co., Chicago, Ill., pipe contract to Universal Pipe Co., mch. from Fairbanks-Morse Co., Atlanta, Ga., laying of pipe to V. C. Grant, tank to be supplied by Newman Co., hydrants and valves to Columbian Iron Works.

Mo., Keteaville—City planning to install water works; will probably vote on bonds. Address The Mayor.

Mo., Marshall—City will reconstruct water works and electric light plant; votes June 6 on \$25,000 bonds. Address The Mayor.

N. C., Asheville—City, R. J. Sherrill, Comms. of Public Works, opens bids June 12 for repairing reservoir on Beaucatcher mountain; C. E. Waddell, Consult. Engr. (Lately noted.)

N. C., Hendersonville—For full details see Mch. Wanted—Water Works Improvements.

N. C., Madison—City will construct water and sewer system, voted \$100,000 bonds. Address The Mayor.

Okla., Ardmore—City let contract to The Boardman Co., Oklahoma City, to construct dam at Hickory Creek; 550 ft. in length; inundate approx. 190 acres.

Okla., Henryetta—City let contract at \$42,600 to Merkle Machinery & Contracting Co., Kansas City, Mo., for furnishing and installing cast iron pipe for water works extension.

Okla., Oklahoma City—City let contract at \$187,007 to Pratt Thompson Construction Co., Kansas City, Mo., for gunnrite concrete slabs to reinforce banks on lake at water works dam.

Okla., Vinita—City let contract at \$256,000 to James & Shoe, Miami, for water works system.

Okla., Wewoka—Board of Trustees receives bids until June 12 for water works improvements consisting of raising and rebuilding present dam in Wewoka Creek; building intake; flow line from intake to pump pit; complete water filtration plant; plans and specifications from Benham Engineering Co., 222 Gumbel Bldg., Kansas City, Mo., Engrs. (Lately noted.)

Tenn., Bristol—City, L. H. Gammon, Mayor, will improve water system, complete storage basin, etc.

Tenn., Chattanooga—J. F. Crabtree will install water, lights, etc. in connection with development of home site.

Tex., Center—City, J. W. Shotwell, Mgr., will expend \$56,800 for extension to water works; E. E. Sands, Houston, Engr.; Kroeger & Hayner, San Antonio, Gen. Contr.

Tex., El Paso—City let contract at \$6070 to V. E. Ware to construct settling basin and pumping houses.

Tex., Houston—For full details see Mch. Wanted—Water Works.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned

Tex., Pampa—City will construct water works and sewerage system; voted \$80,000 bonds. Address The Mayor.

Tex., Paris—City, M. C. Welborn, Mayor, let contract at \$251,516.80, to McGuire & Cavender, Kansas City Mo., to construct dam for new reservoir.

W. Va., Huntington—Huntington Water Corp., construct 1 story brick pump house Cor. 24th St. and Olev Ave.; cost \$50,000.

### Woodworking Plant.

Ark., Helena—Flooring—Superior Oak Flooring Co., R. Cranahan, Prest., Pine Bluff, Ark., increased capital to \$250,000.

La., New Orleans—Boxes—General Box Corp., main office, 1937 Conway Bldg., Chicago, Ill., merging of Republic Box Co. and other interests; mfrs. wire bound boxes.

Md., Baltimore—Furniture—Adolph & Hilty, capital \$10,000, inceptd. by John E. and Lillye E. Adolph, Phillip R. Hilty, Jr.

Md., Baltimore—Mill Work—Builders' Lumber Supply Co., North Ave. and Elm St., capital \$10,000, inceptd. by Howard B. Herring, Rinaldo W. Troupe and Louis J. Schneider.

Mo., Kansas City—Veneer—Missouri Walnut Co. leased 2 acres site, for plant improvements.

Mo., St. Louis—T. J. Moss Tie Co., increased capital to \$600,000.

N. C., Newbern—Box Shooks, etc.—International Lumber & Shook Co., 318 Forrest Bldg., Philadelphia, Pa. (lately noted to establish branch plant) has mill construction building, install woodworking mch., for mfrs. of box shooks, etc. (See Mch., Wanted—Woodworking Mch.; Belting and Shafting; Lumber.)

Tex., Beaumont—Neches Tie & Piling Co., inceptd. by F. D. Jonte, Tom F. Coleman and Grover C. Lowe.

Tex., Mexia—Furniture—J. I. Riddle and Co., changed name from Ridd, Leand and Co., increased capital to \$50,000.

Va., Richmond—Pianos, etc.—Federal Piano Corp., capital \$50,000, inceptd. with J. T. Esthel, Prest.; C. Quina, Secy.; mfrs. musical instruments of all kinds.

### FIRE DAMAGE

Ala., Goodwater—J. S. Gilliland, E. Robinson, W. R. Walker and Fred Crew's buildings.

Ala., Nauvoo—R. T. Thornton and Clyde McClellan's buildings.

Ala., Talladega—Talladega Knitting Mills; loss \$30,000.

Ark., Little Rock—Arkansas Foundry Co.'s plant at 6th and Thomas St.; loss several thousand dollars.

Ark., Plumerville—O. O. Oglesby Drug Store.

Fla., Gainesville—Standard Fertilizer Co.'s plant, C. Ira Baird, Proprt.; loss \$20,000.

Fla., Kissimmee—Mrs. J. E. Kirkpatrick's apartment house at Orlando Ave. and Bryan Street.

Ga., Atlanta—White Provision Co.'s plant; loss \$10,000.

Ga., Augusta—J. T. Crenshaw's residence, 2 barns, garage and wagonshed on Louisville Road; loss \$12,000.

Md., Baltimore—Hubbard & Eagleston's store at 120 W. Baltimore St.

Md., Baltimore—Talbot-Adams Wilcox Co.'s hair mfg. plant at 202 Garrison Lane; loss \$50,000.

Md., Bishopville—Whaley & Bro.'s store, Md., Champ—Wm. T. Bozman's store, owned by Isaac T. Parks Estate.

Md., Rockville—Richard H. Lansdale's flour mill; loss \$7500.

Miss., Knox—Swift Lumber Co.'s sawmill, planer and dry kiln; loss \$100,000.

Mo., Kansas City—Helmets Mfg. Co.'s plant; loss \$10,000.

Mo., St. Louis—Warehouse occupied by International Shoe Co.; loss \$10,000.

Mo., St. Louis—Aude Furniture Co.'s building; loss \$10,000.

Mo., St. Louis—Burkhardt Mfg. Co.'s warehouse at 4900 N. Second St.; loss \$20,000.

N. C., Hendersonville—Mrs. A. M. Trenholm's residence; loss about \$15,000.

Okl., Oklahoma City—American Cracker & Candy Co., 1004 W. Washington Ave.; loss \$35,000.

Okl., Walters—Meridian Garage; loss from \$50,000 to \$75,000.

S. C., Anderson—W. J. Edwards' residence on Society St.

S. C., Carlisle—Walter M. Wishhart's residence.

S. C., McCormick—J. T. Fooshe's furniture store; Peoples' Bank Bldg.; loss \$100,000.

Tenn., Memphis—Bry-Block Mercantile Co.'s store.

Tex., Connell—West Lumber Co.'s lumber yards, 2 dry kilns, etc.; loss \$200,000.

Tex., Dallas—Walraven Brothers printing and bookbinding plant; loss \$70,000.

Tex., Dallas—Emmanuel Baptist Church, Colored. Address The Pastor.

Tex., Houston—Dodge Hotel, 1009½ Capitol Ave. (Mrs. Chas. Moore, Proprietress); and C. L. Bering Hardware Co.; loss \$100,000.

Tex., Paint Rock—S. C. Curtzinger's store; Taylor Grocery; Datchford Grocery.

Tex., Rogers—Ater Hotel (address The Proprietor).

Tex., Waco—Negro high school at Clay and River Sts.; loss \$25,000; E. H. Vaden, Bg. Mgr., City Schools.

Tex., Wichita Falls—Chas. E. Watson, Innovation Hat Shop, Lafayette Cafe, Wichita Light & Power Co. and W. A. Ballard & Co.'s buildings.

Va., Lynchburg—J. R. Millner Co.'s dept. store on Main St.

Va., Norfolk—McCoy Coal & Ice Co.'s plant on Fountain St., loss \$15,000.

Va., Portsmouth—Max Barney's Supply Store, 618-20 High St.

Va., Portsmouth—Orpheum Theater in Hotel Monroe Bldg.; Masonic Temple; Court Street Baptist Church; loss \$75,000.

W. Va., Huntington—Central-Jones-Oley Building, 5th Ave. and 13th St.; loss \$20,000.

W. Va., Lumberport—Hough Coal Co.'s tippie and mine chutes.

W. Va., Pruntytown (R. D. from Grafton)—Three buildings at West Virginia Industrial School for Boys; loss \$50,000; H. E. Flesher, Prest.

### Damaged by Storm.

Mo., Kansas City—Helmets Mfg. Co.'s plant at 6th and Bluff Sts., loss \$400,000.

## BUILDING NEWS

### BUILDINGS PROPOSED

#### Apartment Houses.

Fla., Miami Beach—H. S. Purdy plans to erect apartment house; 4 apartments.

Fla., Miami—Mrs. Fannie Cowan will erect apartment house; cost \$11,000; 4 apartments; 50x35 ft.; 2 stories; concrete block.

Fla., Miami Beach—Morris Williamson will erect apartment house; 3 stories; stucco; fifteen 3 and 4-room suites.

Fla., St. Petersburg—Elizabeth M. Kipfinger and Elizabeth R. Betts plan to erect apartment house.

Ky., Elizabethtown—Thomas Morrison will erect post office station and apartment building; brick walls and trim; private plans; construction by day labor.

Md., Baltimore—Gordon F. O'Neill, 9 Queen Anne Rd., will erect building, Queen Anne Rd. and Oakdale Path; \$20,000.

Tex., Dallas—Mrs. E. M. Foss will erect 2-story brick veneer stores and apartment; 3213-15 Swiss St.; \$21,500.

Tenn., Chattanooga—J. H. Dethero will erect apartment house, W. 10th St. near Pine St.; 3 stories; brick; \$10,000.

Tenn., Chattanooga—Dr. E. C. Johnson will erect apartment house, W. 10th St. near Florence St.; 2 stories; brick; \$18,000.

Tenn., Knoxville—R. F. Graf & Sons, Architects-Engrs., are preparing plans for 5-story apartment house; fireproof; tile and composition roof; concrete, hardwood and oil floors; hollow fireproof and interior tile; metal doors; wire glass; ventilators; steel sash and trim; vapor-steam heat; electric lights; automatic electric elevator; contract about July 1.

Va., Norfolk—Mrs. A. B. Black will erect

building, Manteo St. and Fairfax Ave.; 9 apartments; brick and hollow tile; K. L. Hulsick Co., Architects.

Va., Richmond—L. M. Cheatham, 5 W. Main St., will erect bachelor apartment building, Main and Cherry Sts.; cost \$35,000; 15 apartments; 3 stories; 77x42 ft.; L. Otis Spears, Archt., 2510 W. Main St.

#### Association and Fraternal.

Ky., Louisville—Parkland Lodge No. 638, A. F. & A. M., Emil Anderson, Chrmn., will erect store and lodge building at 28th and Dumesill Aves.; cost \$85,000; 100x100 ft.; 3 stories and basement; concrete; composition roof; concrete, hardwood and tile floors; hollow fireproof and interior tile; wire glass; steel sash and trim; electric lights; heating not decided; Otto D. Mock, Archt., 604 Marion E. Taylor Bldg.; contract about August 15. (Lately noted.)

La., Houma—Houma Lodge 1193, B. P. O. E., Dr. J. B. Duval, Exalted Ruler, plans building.

La., Monroe—Leonidas Barkdull Faulk Post No. 13, American Legion, L. A. Young, Jr., Post Commander, will erect building at St. John and Wood Sts.; club rooms, auditorium, gymnasium, etc.; L. Milton King, Archt. (Lately noted.)

La., New Orleans—Grand Lodge, Knights of Pythias will repair building, 1131 Gravier St.; \$32,000; owner builds.

Okl., Tulsa—Tulsa Masonic Building Assn., 201 Roberts Bldg., will receive bids until June 9 to erect temple at Boston Ave. and 7th St.; cost about \$300,000; bids on following: masonry and concrete, carpentry and millwork, lathing and plastering, painting, structural steel, ornamental iron work, marble.

tile, terrazzo and seagliola, plumbing, heating and ventilating, roofing, sheet metal, electric wiring; H. H. Mahler & Co., Archts.

### Bank and Office.

Ark., Little Rock—Little Rock Branch Federal Reserve Bank of St. Louis, A. F. Bailey, Mgr., Little Rock, will receive bids until June 5 to erect branch bank; 80x100 ft.; 2 stories and basement; fireproof; reinforced concrete; composition roof; cement, composition, tile and marble floors; steam heat; electric lights; 2 electric passenger elevators; plans and specifications from Thompson & Harding, Archts., 509 Southern Trust Bldg., Little Rock. (Lately noted.)

Fla., Daytona—Alfred A. Tobin, Tobin & Tobin, Miami; store and office building; Main and Coates St.; 4 stories; brick; also move and remodel apartment house now on site.

Ky., Columbia—Bank of Columbia will erect building; 2 stories and basement; brick and stone; C. C. & E. A. Weber, Archts., Miller Bldg., Cincinnati, O.

Ky., Louisville—Henry Vogt Machine Co., will erect addition to office building at 10th and Ormsby Aves.; cost about \$75,000; 3 stories and basement; 48x150 ft.; D. X. Murphy & Bro., Archts., Louisville Trust Bldg.

Md., Baltimore—Citizens National Bank, Albert D. Graham, Prest., Hanover and Pratt Sts., will erect building, Light and Redwood Sts.; \$2,000,000; 20 stories; 116x77 ft.; fireproof; steel and Bedford limestone; banking room 43 ft. high, with mezzanine floor, 6 marble columns on each side; bank entrance on Light St., and office entrance on Redwood St.; Graham, Anderson, Probst & White, Archts., Railway Exchange, Chicago. (Previously noted.)

Md., Fedsburg—First National Bank plans building; \$15,000 to \$20,000. Address The President.

Md., Pocomoke City—Citizens National Bank, Colmore E. Byrd, Cashr., will erect building to replace burned structure; cost \$50,000; 2 stories; stone; Theo. Wells Pletsch, Archt., American Bldg., Baltimore.

Miss., Hattiesburg—Citizens Bank, G. M. McWilliams, Vice-Prest., will remodel McInnis Bldg. at Pine and Main Sts.; install vault.

Mo., Kansas City—Kansas City Structural Steel Co. and Albert R. Jones will complete Athletic Club structure for offices; cost about \$1,500,000; 100x142 ft.; 21 stories; steel frame; concrete interior construction; pitch and felt roof; concrete, hardwood, tile and marble floors; hollow fireproof and interior tile; ornamental terra cotta; metal doors; wire glass; mail chutes; vault lights; ventilators; steel sash and trim; vacuum system of heat; electric lights; 8 electric traction elevators; Holt, Price & Barnes, Archts.; bids opened about August 1. (Lately noted.)

Mo., Savannah—Savannah Electric Light & Power Co. plans to erect office and sales-room building.

S. C., Columbia—Knights of Pythias, J. C. Guilds, Grand Chancellor, will erect 10-story office building; cost \$250,000; stores on first floor, offices on next eight floors and lodge rooms on tenth; fireproof vaults.

S. C., Ninety-Six—Ninety-Six Cotton Mills will erect building. (See Dwellings.)

Tenn., Nashville—Caldwell & Co. will erect building at 4th Ave. and Union St.; cost about \$650,000; 8 stories; fireproof; 37x170 ft.; Renaissance architecture; 2 electric elevators; bids opened June 23.

Tex., Teague—First National Bank will remodel building; cost \$25,000; 30x90 ft.; brick; stone trim; concrete vault; tile and

hardwood floors; steam or hot water heat; vault equipment and doors; steel ceilings; marble fixtures; metal guards and grills; Paul G. Silber & Co., Archts., San Antonio; separate contracts for plumbing, heating and wiring; bids opened. (Lately noted.)

Va., West Point—Citizens Exchange Bank, Inc., J. E. Bland, Prest., will erect building.

### Churches.

Fla., Orlando—North Baptist Church will erect building. Address The Pastor.

Ga., Columbus—Rose Hill Baptist Church, T. S. Roberts, Chrmn. Bldg. Comm., will remodel church and erect Sunday school building; 3 stories; brick; repair heating system; cost \$12,000; Chas. F. Hickman & John C. Martin, Jr., Archts. (Lately noted.)

Ky., Covington—St. John's Parish, care Father Anthony Gebel, will erect church, rectory and sacristy on Pine St. near Western St.; 66x107 ft. and 32x52 ft.; brick and stone; Ludwig & Dresicorner, Archts., 1756 Waverly Pl., St. Louis, Mo.

Ky., Frankfort—First Christian Church, W. G. Simpson, Chrmn. Bldg. Comm., will erect building at 312-16 Ann St.; cost about \$100,000; about 60x200 ft.; 2 stories and basement; ordinary construction; tin and Barber built-up roof; cork tile and pine floors; steam or vapor heat, \$10,000; electric lights; dumb waiter; Leo L. Oberwarth, Archt.; bids opened about July 1. Address Mr. Simpson. (Lately noted.)

Ky., Louisville—Catholic Church, Rev. A. C. Zoeller, Pastor, R.F.D. 4, Shively, will erect building near Louisville; cost \$35,000; 52x112 ft.; 1 story and basement; brick and tile; tile roof; concrete and hardwood floors, metal ceilings; wire glass; ventilators; Fred Erhart, Archt., Norton Bldg., Louisville; bids opened June 5.

Ky., Louisville—Calvary Lutheran Church, Rev. J. C. Waltz, Pastor, 1915 Bonnyeastle Ave., will erect first unit of church; 1 story and basement; Gothic design; 40x80 ft.; brick and stone walls; stone trim; slate roof; hardwood floors; gas steam heat; Alfred E. Weinedel, Archt., 410 Lincoln Trust Bldg.

Ky., Louisville—St. Benedict's Catholic Church will erect building at 25th St. and Osage Ave.; cost \$50,000. Address The Pastor.

Ky., Somerset—High St. Baptist Church, Joe Higgins, Chrmn. Bldg. Comm., will erect building; cost \$40,000; concrete foundation; brick walls; stone trim; built-up asphalt roof; concrete and pine floors; vapor heat, \$3500; bids opened by June 5 Frank L. Smith, Archt., 439 E. Main St., Lexington. (Lately noted.)

Md., Baltimore—First Christian Church, Rev. B. H. Llinville, Pastor, will erect building in Forest Park; \$100,000; 60x115 ft., 30x45-ft. wing; stone, wood joists; slate roof; wood and composition floors; steam heat; electric lights; Clyde N. & Nelson Friz, Archts., Lexington Bldg.; bids opened about July 15.

N. C., Charlotte—St. Martin's Episcopal Church, Rev. John I. Jackson, Pastor, will erect addition on E. 7th St.; \$15,000; pipe organ; Hobart B. Upjohn, Archt., Grand Central Terminal, New York.

N. C., Greensboro—West End M. P. Church, Rev. N. M. Harrison, Jr., Pastor, plans to erect building.

Okla., Chickasha—Presbyterian Church, Rev. W. A. Roach, Pastor, will erect building; 2 stories; brick; stone trim; 60x94 ft.; \$35,000; pipe organ; auditorium to seat 800; 18 classrooms.

S. C., Anderson—Oakwood Baptist Church

will enlarge building. Address The Pastor.

Tex., San Antonio—Madison Square Presbyterian Church, Camden & Lexington Ave.; addition and remodeling; \$18,000; 50x80 ft.; stone; Johns-Manville asbestos shingle roof; pine and linoleum floors; electric lights; Smith & Kelly, Archts.-Constr. Supts. (Lately noted.)

Va., Bristol—Central Christian Church will erect Sunday school annex at Shelby and Broad Sts., lately noted; cost \$10,000 to \$12,000; 48x70 ft.; 2 stories; brick veneer; asphalt shingle roof; wood and concrete floors; electric lights; rolling partitions; wire glass; Dickson & Burnett, Archts.; bids opened about June 5. Address J. W. Umstattd. (See Mch. Wanted — Plumbing; Seating; Sunday School Equipment.)

### City and County.

Fla., Plant City—City Hall, etc.—City, W. H. Dorrance, Clk., W. C. Wells, Prest. City Council, voted \$150,000 bonds including \$38,000 for city hall and fire station. (Lately noted.)

Fla., Winter Haven — City Hall — City voted \$45,000 bonds to erect city hall. Address The Mayor.

Ky., Catlettsburg—Community House—City, John E. McCall, Chrmn. Bldg. Comm., will erect building at Front and Franklin Sts.; cost \$16,000; 65x108 ft.; brick; stage.

La., Shreveport—Library—City will erect library on Travis and Edward Sts.; cost \$120,000; 9000 sq. ft. floor space; Italian Renaissance; J. P. Annan, Archt.; bids opened June 27. (Lately noted.)

Md., Baltimore—Service Building—Board of Awards, Mayor Wm. F. Broening, Prest., will receive bids until June 14 for alterations and additions to service building, Northern police station; drawings and specifications from office J. F. Crowther, Inspector of Buildings, City Hall.

Tex., Quanah—City Hall—City, Ralph McMillan, Secy., will receive bids until June 12 to erect city hall; brick; 2 stories; Elrod Engineering Co., Engr., Dallas; plans and specifications from City Secy.

### Courthouses.

N. C., Rockingham—County Commrs. retained E. S. Draper, Landscape Archt., 11 E. 5th St., Charlotte, to prepare plans for courthouse grounds.

N. C., Wilson—Wilson County Commrs. are considering election on \$250,000 bonds for courthouse.

Tex., Houston—County Commrs. of Harris County will remodel courthouse; M. L. Sullivan, Archt.; bids opened.

### Dwellings.

Ala., Birmingham—John W. Patton will erect dwelling on Highland Ave. near Oak St.; \$12,000.

Ala., Birmingham—George C. Harris will erect \$12,000 residence on Argyle Rd.

Ala., Jasper—A. M. Christman will erect residence.

Ark., Little Rock — Bracy Real Estate & Building Co. will erect dwelling, 109 Ridgeway St.; stucco; 2-story brick dwelling, 2423 Arch St.; brick dwelling, 103 Johnson St.; total cost \$22,000.

Fla., Jacksonville—Ed. Burke will erect residence on Riverside Drive; cost \$14,000; steam heat; L. A. Fort, Archt., Tampa.

D. C., Chevy Chase—Henry N. Brawner, Jr., care Archt., will erect residence and garage, Rittenhouse St.; \$40,000; 48x45 ft.; 2 stories, basement and attic; brick and hollow tile; Spanish tile roof; concrete and hardwood floors; vapor heat; electric lights;



John Albert Hunter, Archt., 3101 14th St., N. W., Washington; receiving bids on sub-contracts except brick. (Lately noted.)

D. C., Washington—Samuel Perry will erect 2-story brick dwelling, 2913 34th Pl., N. W.; \$15,000; owner builds.

Fla., Miami Beach—F. J. Osius, Racine, Wis., will erect 4 tropical houses at Washington Ave. and Lincoln Rd.; plans completed.

Fla., Miami—George Chaboon, Jr., Grand Mere, Quebec, Canada, plans residence.

Fla., St. Petersburg—Schooley & Murphy will erect 4 dwellings; 725 and 805 16th Ave., 505-515 17th Ave.; total cost \$35,000; hollow tile and stucco.

Ga., Athens—Col. M. G. Michael will erect residence at Milledge and Woodlawn Aves.

Ga., Macon—S. R. Jacques, Jr., will erect residence in Shirley Hills; brick veneer and plaster; slate roof; 7 rooms; Dunwoody & Oliphant, Archts.

Ga., Macon—J. R. Odom & Co. will erect 5 dwellings. (See Stores.)

Ga., Macon—Kingman Moore will erect residence; brick veneer; slate roof; Dunwoody & Oliphant, Archts.

Ga., Marshallville—Louis B. Rumph will erect residence; Spanish tile roof; brick veneer; 12 rooms; Dunwoody & Oliphant, Archts., Macon.

Ga., Statesboro—P. G. Franklin will erect residence on Savannah Ave.

Ky., Ashland—W. F. Perdue, Winchester Ave., will erect residence at 16th and Central Sts.; cost about \$10,000; 8 rooms; 2 stories and basement; 25x26 ft.; brick; slate roof; hardwood floors; hot air heat; Thomas F. Walston, Archt., Grand Theater Bldg.; construction by owner. (Lately noted.)

Ky., Ashland—Wm. H. Browne, Huntington, W. Va., will erect residence on Grayson Roads; brick; English design; 9 rooms, 2 baths; tile; hot water heat; laundry equipment; cost \$12,500; Thos. F. Walston, Archt., Grand Theatre Bldg.; bids June 3.

Ky., Frankfort—Edward C. O'Rear will erect residence to replace burned structure; cost \$40,000; 50x70 ft.; brick and stucco; hardwood floors; interior tile; vaults; hot water heat; hydro-electric lighting; L. L. Oberwarth, Archt.; bids opened about July 1. (See Mch. Wanted—Water Works; Pump; Electrical Equipment.)

Ky., Henderson—Consolidated Textile Corp., 1021 Washington Ave., J. C. Magarahan, Mgr., will erect 23 cottages; 1 story; frame.

La., New Orleans—City Investment Co. will erect 7 cottages, 5163 Music, 4445 St. Roch, 4715 De Montezun, 4715 Venus, 2513 Wisteria, 4444 Eastern, and Spain and Selma Sts.; total cost \$19,600; owner builds.

La., New Orleans—O. S. Miller; business building and residence, 1946 Ursulines St.; \$11,375; W. Geary, Contr

La., Shreveport—Patton Hawking will erect dwelling on Atkins Ave.; cost \$14,300; 1 story; brick and concrete.

Md., Baltimore—Welsh Construction Co., 11 E. Fayette St., will erect 20 dwellings at 1527-45 and 1526-44 N. Payson St.; cost about \$35,000; 2 stories; brick; 18.10x30 ft.; Carey roofs; furnace heat; George Wessel, Archt., 2752 Winchester St.; construction by owner. (Lately noted.)

Md., Baltimore—Joseph Ricks, 1533 Poplar Grove St., will erect bungalow at Howard Park.

Md., Baltimore—Joseph M. Shears, 2527 W. Lafayette Ave., will erect bungalow at Howard Park.

Md., Baltimore—Frank O. Singer, Jr., Ca-

tonsville, will erect 2 cottages, 401-403 Carlisle Ave.; \$10,000; 28x33.9 ft.; 2 stories; frame; also frame cottage, 2501 Chelsea Terrace; \$5000.

Md., Baltimore—Cityco Realty Co., 2 E. Lexington St., will erect 17 dwelling, 2821-53 Boarman Ave.; cost \$30,000; 2 stories; brick; slag roofs; furnace heat; F. E. Beall; Archt., 306 St. Paul St.; construction by owner; also 12 dwellings at Albambra and Glenwood Aves.; cost about \$30,000; 2 stories; brick.

Md., Baltimore—Mrs. Anna M. Hines will erect Dutch colonial residence, lately noted, Rugby Rd. between Warrenton and Overhill Rds.; 2½ stories; 41.6x30.6 ft.; brick and frame; slate roof; concrete and hardwood floors; 1-pipe steam heat; Roy G. Pratt, Archt., 323 N. Charles St.; bids opened. (See Mch. Wanted—Steel Sash.)

Md., Baltimore—E. J. Gallagher Realty Co., 919 Munsey Bldg., will erect 28 2-story brick dwellings, 800-26 and 801-27 E. 34th St.; \$100,000.

Md., Baltimore—Mueller Construction Co., Gunther Bldg., will erect 14 dwellings in 3400 block University Pl.; cost about \$77,000; 2½ stories; brick.

Md., Baltimore—Northwest Realty Co., Geo. R. Morris, Prest., Morris Bldg., will erect 2-story hollow tile dwelling at Springdale Ave. and Denison St.; also 2-story frame cottage and garage at 3510 Copley Rd.; total cost \$13,000.

Md., Baltimore—Isaac C. Rosenthal, 3411 Holmes Ave., will erect 14 dwellings, northwest corner Lanvale St. and Calverton Rd.; thirteen 15x32 ft., and one 36x46 ft.; cost \$28,000; also 20 dwellings, southwest corner Lanvale St. and Calverton Rd.; cost \$41,500; all 2 stories; brick; slag roofs; furnace heat; Stanislaus Russell, Archt., 11 E. Lexington St.; construction by owner. (Lately noted.)

Md., Baltimore—Sterling Realty Co., 11 E. Fayette St., will erect 13 bungalows at 5100-24 Belleville Ave.; cost about \$30,000; 1 story; frame.

Md., Carney—R. D. Lock Raven—H. C. Wilkinson, 214-15 American Bldg., Baltimore, will erect 16 dwellings on Harford Rd.; cost \$45,000; 1½ and 2½ stories; shingle; J. R. Randle, Archt., 907 Light St.

Miss., Yazoo City—A. R. Turnin will erect residence; cost \$25,000; hollow tile and stucco; tile roof; N. W. Overstreet, Archt., Jackson.

Miss., Jackson—Lesley Lampton will erect residence; cost \$12,000; stucco; metal lath; tile roof; N. W. Overstreet, Archt.

Mo., Kansas City—E. V. Mittong, 524 Dwight Bldg., will erect 6 residences at 5628-5638 Lydia Ave.; cost \$2000 each; 22x44 ft.; wood; shingle roofs; hardwood and tile floors; furnace heat; electric lights; plans and construction by owner. (Lately noted.)

Mo., St. Louis—Ottmar G. Stark Realty Co., 624 Chestnut St., will erect number of bungalows, also 4 and 5, and 5 and 6-room flats; brick and frame; concrete and hardwood floors; hollow fireproof and interior tile; ornamental terra cotta; hot air and hot water heat; plans and construction by owner. (Lately noted.)

N. C., Asheville—C. H. Wilson will erect residence on Cumberland Ave.; cost \$10,000; 7 rooms.

N. C., Bayboro—S. E. McCotter, M.D. will receive bids until June 15 to erect Colonial residence; 11 rooms; material furnished; H. W. Smith, Archt.

N. C., Charlotte—W. E. Holt, Lexington, will erect residence in Myers Park; hollow tile and stucco; clay tile roof; Charles C. Hook, Archt.

N. C., Durham—B. D. Gaddy will erect residence; hollow brick walls; asbestos roof; hardwood floors; hot water heat; electric lights; Q. E. Herman, Archt., Hickory. Address owner.

S. C., Ninety-Six—Ninety-Six Cotton Mills, Jas. C. Self, Prest., Greenwood, will erect dwellings, office building, school, warehouse and install sewerage system.

Tenn., Chattanooga—J. T. Lupton, Carter Lupton and others purchased Caldwell farm on Hixson Road; will erect 200 employees cottages.

Tenn., Etowah—C. B. Young will erect 5-room bungalow at Washington Ave. and 13th St.

Tenn., Knoxville—J. A. Morris will erect four 5-room buildings, Tarleton Ave.; \$12,000.

Tenn., Memphis—C. L. Van Fossan, National Cash Register Co., will erect residence at Strathmore Pl. and E. Parkway, north; Spanish and Italian design; frame and stone-kote; tile roof; sleeping porch; Mahan & Broadwell, Archts.

Tenn., Memphis—M. H. Palmer will erect 3 dwellings at 343 Edith St., 304 and 322 Angelus St.; cost \$4500 each; 7 rooms, brick veneer.

Tex., Honey Grove—Mrs. G. W. Day plans to erect \$15,000 brick veneer residence; Curtis & Lightfoot, Archts., Paris.

Tex., Houston—Elwood Fouts will erect 8-room residence, California and Commonwealth Sts.; cost \$10,000.

Tex., Houston—Embry & Gillette will erect 3 cottages on Webster, Hadley and W. Alabama Sts.; total cost \$10,100; also 2-story brick residence on Caroline St.; \$10,000; 1511 W. Alabama St.; \$7500; 1507 W. Alabama St.; \$12,000; both 2 stories; brick.

Tex., Houston—R. S. Sterling, Prest., Humble Oil & Refining Co., will not erect residence in Rossmoyne addition, as lately reported.

Tex., Paris—O. L. Means will erect brick veneer residence, \$7500; also 2 bungalows; Curtis & Lightfoot, Archts., Paris.

Tex., Roston—Mrs. Hurt Means plans to erect \$15,000 brick veneer residence; Curtis & Lightfoot, Archts., Paris.

Tex., San Antonio—Col. S. F. Crecelius will erect residence on Torcedo Drive and Grant Ave.; cost \$11,000; 7 rooms; Ideal brick wall; W. N. Hagy, Archt.

Tex., San Antonio—Chas. N. Wuest, Travelers Hotel, will erect residence on Davis Court near River Ave.; cost \$12,000; Henry T. Phelps, Archt.; day labor.

Tex., Teague—Dr. W. P. Harrison will erect residence; cost \$10,000; 1 story; concrete foundation; frame; asbestos built-up roof; hardwood and tile floors; Paul G. Silber & Co., Archts., San Antonio; bids opened.

Va., Portsmouth—T. W. Mathews will erect residence on Crawford Pl. near Dinwiddie St.; cost \$10,000; 2 stories; brick.

Va., Roanoke—W. L. Welborn will erect residence on Walnut Ave. near Albemarle St.; cost \$10,000; 2 stories; brick.

Va., Richmond—Fred B. Evensen will erect dwelling at 2601-2nd Ave.; cost \$10,000; brick; 4 flats.

Va., Richmond—Bertha L. Smith will erect dwelling at 139 S. Colonial Ave.; cost \$12,000; brick.

W. Va., Martinsburg—Maurice Marple, Contr., will erect 3 dwellings on S. Queen St.; 2 stories; frame.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

## Government and State.

1. C., Washington—Barracks—Bureau of Docks and Yards, Navy Dept., L. E. Gregory, Chief, will receive bids until June 14 to remodel marine barracks and officers' quarters; concrete foundations and walls, partitions, plumbing, etc.; drawings and specification No. 4623 from Bureau or from Commandant, Navy Yard.

La., New Orleans—Post Office, etc.—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., will receive bids until June 20 for alterations in post office and courthouse; drawings and specifications from Custodian at site or from office Supervising Archt.

Mo., Farmington—Cottage—Board of Managers, State Eleemosynary Institutions, H. D. Evans, Prest., St. Louis, will receive bids until June 17 to erect cottage at State Hospital No. 4; plans and specifications from H. H. Hohenschild, Archt., Odd Fellows Bldg., St. Louis.

N. C., Conover—Post Office—P. E. Isenhower & Son will erect 1-story brick building for post office; 18x50 ft. (See Mch. Wanted—Post Office Equipment.)

## Hospitals Sanitariums Etc.

D. C., Washington—Constructing Quartermaster, Room 2306 Munitions Bldg., 19th & B Sts., will receive bids until June 27 to construct Army Medical School, Walter Reed General Hospital; plans and specifications from office Constr. Quartermaster; on file at following stations: Constr. Quartermaster, 39 Whitehall St., New York; Quartermaster Supply Office, Chicago; General Intermediate Depot, 1819 W. Pershing Rd., Chicago; Constr. Quartermaster, Frankford Arsenal, Philadelphia.

Mo., St. Joseph—Missouri Methodist Hospital Assn. will erect Greater Missouri Methodist General Hospital; cost \$750,000; concrete, brick and steel; tile roof; concrete and terrazzo floors; hollow fireproof and interior tile; safes; metal doors; vaults; wire glass; lighting plant \$20,000; elevators \$30,000; bids opened about July. Address Eckel & Aldrich, Archts.

N. C., Banner Elk—Lees-McRae Institute will erect Grace Memorial Hospital lately noted; cost \$20,000; fireproof; native stone; slate roof; concrete and tile floors; hollow fireproof and interior tile; ornamental terra cotta; metal doors; steel sash and trim; Beason Co., Archt., Johnson City, Tenn. Address Dr. W. C. Tate, Banner Elk. (See Mch. Wanted—Elevators.)

Tex., Teague—City, J. H. King, Mayor, will erect hospital building; lately noted; cost \$15,000; 31x67 ft., 2 stories and basement; frame and stucco; concrete basement; metal tile roof; hardwood and tile floors; metal ceilings; wire and prism glass; hand power elevator, and hand power dumb waiter; forced hot air heat, \$12,000; Paul G. Silber & Co., Archts., 331 Bedell Bldg., San Antonio. (See Mch. Wanted—Elevators, etc.)

Tex., Vernon—Wilbarger County defeated \$50,000 hospital bonds issue. (Lately noted.)

## Hotels.

D. C., Washington—Walker Hotel Corp., Allan E. Walker, Prest., will erect hotel at Connecticut Ave. and DeSales St., N.W.; cost \$6,750,000; 11 stories; fireproof; reinforced concrete, brick and steel; exterior of rough faced brick for 3 stories, terra cotta trim above; 1100 guest rooms; Robt. E. Beresford, Archt. (Lately noted.)

Ga., Macon—Murphy, Taylor & Ellis and Jesse B. Hart will rebuild Brown House; \$75,000 to \$100,000; 4 stories; 90 rooms;

7 stores on first floor; shower and tub baths; Hupp & Shelverton and Dunwoody & Oilphant, Archts. (Lately noted.)

La., New Orleans—DeSoto Hotel is reported to erect 15-story annex; cost \$1,500,000; 60 apartments and 90 sample rooms.

N. C., Burlington—Piedmont Hotel will enlarge and remodel building.

Okl., Pawhuska—Duncan Hotel, Chas. Duncan, Propr., plans 5-story hotel; 350 rooms, roof garden; fireproof.

Okl., Ponca City—E. W. Marland will erect hotel on E. Grand Ave.; 5 stories.

Tex., Dallas—Kean & Crofford will erect 3-story hotel at 612 N. Harwood St.; \$125,000; 60x136 ft.; brick; stone trim; owners build.

Tex., Honey Grove—Honey Grove Hotel Co., J. A. Pierce, Prest., will erect hotel; 3 stories.

## Miscellaneous.

Ala., Montgomery—Clubhouse—Montgomery Assn. of Business & Professional Women, Mayelle Shough, Chrmn., Comm., is considering erecting clubhouse.

Ark., Hot Springs—Undertaking—Gross Undertaking Co., Geo. Brenner, Mgr., will erect building on Central Ave. between Orange and Olive Sts.; cost \$25,000.

Md., Baltimore—Clubhouse—City Club of Baltimore, Inc., Munsey Bldg., will receive bids until June 15 to erect building at St. Paul and Saratoga Sts.; 68.10x110 ft.; 10 stories; steel, brick, limestone and terra cotta; vapor heat; slag roof; concrete and steel floors with wood and tile finish; Clyde N. and Nelson Friz, Archts., Lexington Bldg.; following contractors estimating: Frairie Bros. & Haisley, 18 Clay St.; Jno. Hiltz & Sons, 343 St. Paul St.; Henry Smith & Sons Co., 7 E. Redwood St.; J. Henry Miller, Inc., Eutaw and Franklin Sts.; B. F. Bennett Bldg. Co., 123 S. Howard St.; M. A. Long Co., Munsey Bldg.; Cogswell-Koether Co., 406 Park Ave.; Northeast Constr. Co., Lexington Bldg.; Price Constr. Co., Maryland Trust Bldg.; West Constr. Co., American Bldg. (Previously noted.)

Md., Frederick—Exhibition—Frederick County Agricultural Society will erect exhibition building; cost \$25,000; 60x200 ft.; iron frame; hollow tile and cement; asbestos shingle roof; concrete floors; electric lights; Edw. Leber, Archt., York, Pa.; Lloyd C. Culler, Contr., Frederick.

N. C., Marion—Clubhouse—J. Quince Gilkey and others will erect clubhouse; \$60,000; frame; hardwood floors; rolling partitions. (Lately noted.)

S. C., Columbia—Fair—South Carolina State Fair Assn., R. M. Cooper, Jr., Prest., will erect arena, cattle and fowl barns; construct athletic field; plans later to erect 4 exhibition buildings, 100x200 ft.; C. C. Wilson, Archt.

W. Va., St. Albans—Clubhouse—Southmoor Country Club, Max Frenkenberger, Alvin J. Lindenburg and others, Incptrs., Charleston; \$50,000 capital; plan to erect clubhouse.

## Railway Stations, Sheds, Etc.

Mo., Neosho—Kansas City Southern Ry. Co., J. M. Wier, Chief Engr., Kansas City, will erect passenger station; \$25,000 to \$30,000.

## Schools.

Ala., Flint—School Board will erect building; 6 classrooms and auditorium; brick.

Ky., Calhoun—McLean County Board of Education will erect school.

Ark., Clarksville—College of the Ozarks,

Dr. H. S. Lysle, Prest., will erect administration building; cost \$75,000.

Ark., Walnut Ridge—School Board will erect high school; cost \$80,000.

Ga., Butler—School Bd. will erect school; \$20,000 bonds voted.

Ga., Cairo—Cairo School District Trustees, W. B. Rodenbery, Secy.-Treas., will receive bids until June 12 to erect building; cost \$60,000; brick; pine floors; electric lights; 20 rooms and auditorium to seat 750; plans and specifications from office Lloyd Greer, Archt., Valdosta; on file with Mr. Rodenbery, and M. S. Stewart, Asso. Archt., Cairo. (Previously noted.)

Ga., Dalton—Board of Education plans high school; \$50,000; J. J. Baldwin, Archt., Anderson, S. C. (Previously noted.)

Ga., Rochelle—School Trustees plan building; election July 5 on \$60,000 bonds. (Lately noted.)

Ky., Bowling Green—School Board will receive bids until June 29 to erect high school; cost \$125,000; 140x170 ft.; 2 stories and basement; brick and stone; Clifford Shoppell & Co., Archts., Evansville, Ind. (Lately noted.)

La., New Orleans—Loyola University, Rev. E. Cummings, Prest., plans to erect dental building, hall for physics, chemistry hall, engineering hall and gymnasium; estimated cost \$1,500,000.

Md., Salisbury—Wicomico County defeated \$300,000 school building bonds. Address County Board of Education.

Miss., Star—School Board, W. N. Mangum, Secy., will erect building; about \$20,000; brick and cement; tile roof; wood floors; steam heat; bids opened June 17. (Lately noted.)

Mo., Avalon—Board of Education, Oran W. Kissick, Prest., will erect school; R. Warren Roberts, Archt., Chillicothe; bids opened June 7. (Lately noted.)

Mo., Bolivar—Southwest Baptist College will erect dormitory.

Mo., Branson—Board of Education will erect school; \$15,000.

Mo., Jefferson City—Lincoln Univ. Board of Curators, C. H. Kirschner, Prest., will receive bids until June 15 to erect dormitory; separate bids for electric wiring and heating; plans and specifications at office E. C. Janssen, Archt., Chemical Bldg., St. Louis.

Mo., Monett—Monett School Dist. Trustees will erect high school and 2 ward schools; \$75,000 bonds voted. (Lately noted.)

Mo., St. Charles—Board of Education called election June 17 on \$200,000 bonds to erect high school. (Lately noted.)

N. C., Candor—Candor Dist. School Trustees, V. W. Burkhead, Secy., will receive bids until June 20 to erect public school; plans and specifications at office Mr. Burkhead.

N. C., Chapel Hill—Chapel Hill School Dist. Trustees will improve buildings; \$40,000 bonds available.

N. C., Duke—City votes June 15 on \$75,000 bonds to erect high school. Address School Board.

N. C., Hickory—West Hickory Dist. School Trustees, J. Lee Brown, Secy.-Treas., will erect high school; cost \$50,000; 174x104 ft.; brick; Benton & Benton, Archts., Wilson. (Lately noted.)

N. C., Leaksville—Leaksville Township School Comm., L. W. Clark, Chrmn., Spray, will receive separate bids until June 14 to erect schools at Leaksville and Draper; plans and specifications for former at office J. W. Hopper, Archt., Leaksville, and for latter at office W. C. Northup, Archt., Winston-Salem.

N. C., Lexington—Lexington High School

Dist. will erect high school; \$225,000 bonds available; F. E. Sigman, Clerk, Davidson County Commrs. (Lately noted.)

N. C., Macclesfield—School Board plans building; election June 5 on \$25,000 bonds.

N. C., Mars Hill—Mars Hill College will erect gymnasium; cost \$25,000; brick.

N. C., Robbinsville—School Board, R. I. Phillips, Chrmn., will receive bids until June 10 to erect building; separate bids for plumbing and heating; 12 rooms and auditorium; granite; plans and specifications at office Frank B. Simpson, Archt., Raleigh.

N. C., Seven Springs—School Board will erect building to replace burned structure; brick.

N. C., Valdese—School Board, J. M. Brinkley, Chrmn., will erect building; cost \$60,000; 152x142 ft.; stone; metal roof; maple floors; steam heat; electric lights; Q. E. Herman, Archt., Hickory; day labor. (See Mch. Wanted—Lumber; Flooring.)

Okla., Duncan—School Board, C. T. Lawrence, Clerk, will erect additions to 2nd schools; Fred G. McCune, Archt.; bids opened. (Previously noted.)

Okla., Rush Springs—School Board will receive bids until June 10 to erect high school; \$25,000; brick; plans and specifications at office Butler & Huseman, Archts., Chickasha. (Lately noted.)

S. C., Blackstock—School Board will erect high school; \$10,000; 2 stories; 65x80 ft.; brick; composition roof; metal ceiling; stoves; contract about June 30. (Lately noted.)

S. C., Columbia—Board of School Commrs., W. H. Hand, Secy., will erect addition to high school and improve other structures; \$75,000 bonds voted. (Lately noted.)

S. C., Meggetts—Trustees, School Dist. No. 15, D. Q. Towles, Chrmn., will erect building; 2 stories; brick; bids opened June 8; plans and specifications at office Benson & Barbot, Archts., 26 Broad St., Charleston.

S. C., Ninety-Six—Ninety-Six Cotton Mills will erect school. (See Dwellings.)

S. C., Orangeburg—School Board will erect grade school and 12-room addition to high school; \$70,000 bonds available. (Lately noted.)

Tenn., Lenoir City—School Board will erect building, East Side; 4 rooms; brick.

Tex., Beaumont—South Park Independent School Dist., J. L. Giles, Secy., will receive bids until June 26 to erect high school, home economics cottage and negro graded school lately noted; cost \$240,000; high school, 3 stories; 250x210 ft.; home economics cottage, 45x100 ft.; negro school, 2 stories; 53x94 ft.; 6 rooms and auditorium; semi-fireproof and fireproof; brick and hollow fireproof tile; tar and gravel and asbestos shingle roofs; rift pine, maple, cement and terrazzo floors; plaster board; ornamental terra cotta; metal doors; rolling partitions; steel sash and trim; wire glass; vaults; ventilators; safes; central heating plant; electric lights; R. H. Hunt Co., Archt., Southwest Life Bldg., Dallas. (See Mch. Wanted—Laboratory Equipment—Furniture (School); Desks; Chairs.)

Tex., Bremond—School Board, Edw. W. Roberts, Secy., will erect high school; 2 stories; 7 rooms and auditorium; brick; Hix McCanness, Archt., Ennis; bids opened.

Tex., Comfort—School Board, Wm. Arisenfeld, Prest., will erect 1-story addition to and alter school; stone; bids opened.

Tex., Garrett—School Board, George Henderson, Prest., will erect building; 8 rooms; brick; Young & Blocker, Archts., Mexia; receiving bids. (Lately noted.)

Tex., Georgetown—Georgetown School District will vote June 20 on \$100,000 bonds to

erect high school and building for colored pupils. Address Dist. School Trustees.

Tex., Hillsboro—School Board, John G. Reed, Prest., will erect high school; 2 stories; brick; J. O. Galbraith, Archt.; \$80,000 bonds voted. (Lately noted.)

Tex., Lipscomb—Lipscomb Independent School Dist. Trustees will erect building; \$20,000 voted. (Lately noted.)

Tex., Littlefield—School Board authorized election June 14 on \$25,000 bonds.

Tex., Mexia—School Board, David Murphy, Secy., will receive bids until June 13 to erect Mexia High School; separate bids on general work, heating and wiring; 650,000 cu. ft.; fireproof; plans and specifications at office Mr. Murphy and office DeWitt & Lemmon, Archts., Dallas.

Tex., Paris—School Board, W. F. Moore, Prest., will erect two 10-room, auditorium and basement schools; cost \$50,000 each; bids about June 15; Curtis & Lightfoot, Archts. (Lately noted.)

Tex., Sealy—School Trustees, R. A. Engelking, Secy., will have plans revised and call for new bids to erect high school; Alfred C. Finn, Archt., Foster Bldg., Houston. (Lately noted.)

Va., Franklin—School Board, Dr. W. H. Arthur, Clk., Farmers Bank Bldg., will receive bids until June 9 to erect high school; separate bids for heating and ventilating; drawings and specifications at office W. Newton Diehl, Archt., New Monroe Bldg., Norfolk.

Va., Harrisonville—Shenandoah Apartments, Inc., will erect dormitory for State Normal School, Dr. Samuel P. Duke, Prest.; cost \$25,000; 3 stories and basement; reinforced concrete and hollow fireproof tile; slate roof; pine and concrete floors; Chas. M. Robinson, Archt., Times-Dispatch Bldg., Richmond; bids opened June 12. (Lately noted.)

W. Va., Ceredo—Board of Education, F. M. Carey, Secy., will receive bids until July 10 to erect 4-room addition to Buffalo Creek High School and 2-room addition to Stony Point school; plans and specifications at office Jno. R. Gieske Archt., Foster Bldg., Huntington.

W. Va., Harrisville—Harrisville Independent Dist. School Trustees will erect high school; \$42,000 bonds available.

W. Va., Parkersburg—City will vote on \$650,000 bonds to erect schools and additions to present structures. Address Board of Education.

### Stores.

D. C., Washington—D. J. Dunigan will erect business block at Third and Upshur Sts., N. W.; 3 stores on first floor; apartments on second.

Fla., Bradentown—Singletary & Cummings will erect business building on S. Main St.; \$15,000; 2 stories; 2 storerooms, 30x68 ft. and 20x68 ft., on first floor; 13 offices on second; concrete foundations; first floor, ceramic and quarry tile; terra cotta loading bearing tile walls; face brick exterior front; plate glass show windows; stone trim; asphalt 5-ply built-up roof; electric lights; plans ready about June 15; Johnson & Fonda, Archts. (Lately noted.)

Fla., Coconut Grove—Sunshine Fruit Co. will erect 2-story building; 5 stores.

Fla., Jacksonville—Adair Realty & Trust Co., Atlanta, Ga., will erect building at Main and Monroe Sts.; 2 stories; brick; stores on first floor; offices above.

Fla., Kissimmee—Dr. T. M. Rivers plans 2-story business block.

Fla., Tampa—Judge Jno. C. White plans to erect building at Tyler and Tampa Sts.; 2 or 3 stories; 105 ft. frontage; brick; L. A. Fort, Archt.

Fla., Tampa—Wallace Paint & Varnish Co., O. R. Wallace, Prest., will erect store and office building at 111 W. 7th Ave.; concrete Ky., Lexington—Fuller & Neal, E. Main St., will erect building for 3 stores and 8 apartments; 48x61 ft.; 3 stories and basement; composition roof; wood floors; Jno. T. Moore & Co., Archts.

Ga., Atlanta—M. Rich & Bros. Co., M. Rich, Prest., will erect department store; cost about \$800,000; 4 stories and basement; 125x200 ft. with 90x100-ft. wing; fireproof; tar and gravel roof; hollow fireproof and interior tile; hardwood and concrete floors; metal doors, wire glass; vault lights; steel sash and trim; ventilators; bids opened about Sept. 1. Address Hentz, Reid & Adler, Archts. (Lately noted.)

Ga., Atlanta—Massell Realty Co. will erect building at Spring and Harris Sts.; cost \$100,000; 100x100 ft.; 2 stories and basement; steel frame.

Md., Baltimore—Fleishmann Co., 1413-13 N. Charles St., will erect five buildings at North Ave. and Gay St.; cost \$25,000; 2 stories; brick.

Ga., Bulloch—P. G. Franklin will erect business block; brick.

Ga., Macon—J. R. Odom & Co. will erect 2-story store at Columbus Rd. and Bellevue Blvd.; brick; also 3 houses on Cherokee Hgts. and one each on Marion Pl. and Rivoli.

Miss., Gulfport—B. C. Bowen will erect building; brick.

Mo., Kansas City—J. R. Miner will erect building at 924 McGee St.; cost \$10,000; 1 story; brick.

N. C., Goldsboro—Edrd Dept. Store, J. B. Edrd, Prest.-Mgr., Charlotte, will erect 3-story building; 55x120 ft.

N. C., Mt. Airy—D. E. Nelson, Ararat, will erect building on Franklin St.; 2 stories; 65x100 ft.

N. C., Salisbury—T. B. Brown will erect building on E. Council St.; 2 stories; 3 stores on first floor; second, offices.

S. C., Greenville—J. O. Jones Co. will remodel business building at 107-109 Main St.; cost \$15,000; 42x122 ft.; 2 stories; terra cotta front; brick walls; wood joists; tar and gravel roof; metal ceilings and doors; ornamental terra cotta; vaults; wire glass; cork or linoleum on wood for first floor; rift pine, second; 2-pipe vapor vacuum steam heat; passenger elevator; day labor under supervision of Jones & Trott, Inc. (Lately noted.)

S. C., Greenville—Neal & Pack will erect building on E. Court St.; 50x100 ft.; 2 stories; store rooms on first floor; offices on second; construction by owners.

S. C., Spartanburg—J. D. Collins will erect business building on N. Church St.; 2 stories; 150 ft. deep.

Tenn., Knoxville—J. T. Barbee will erect building at 302-6 W. Jackson Ave.; cost \$20,000; 3 stories; first floor for stores; second and third, rooming house; brick.

Tenn., Knoxville—Hope Bros. will expend \$25,000 to remodel store front and place marquees.

Tex., Beaumont—E. Black will erect building at College and Neches Sts.; cost \$10,000; 60 ft. frontage; brick.

Tex., Dallas—Sigel & Martin will erect building on Elm St. between Harwood and Olive Sts.; cost \$30,000; 68x40 ft.; 2 stories; brick; C. D. Hill & Co., Archts.; construction by owner.



Tex., Houston—Ira A. Kohler will erect 2-story store, 1412 Congress St.; \$10,977; brick.

Tex., Paris—R. E. Stephens will erect building; cost \$10,000; 2 stories; brick; Curtis & Lightfoot, Archts.

Tex., Port Arthur—Terminal Realty Co. will erect one-story building for 4 stores, garage and filling station; \$20,000; concrete.

Tex., West—Ernest Nemecek will erect brick business building.

Va., Harrisonburg—J. S. Denton & Sons plan 3-story building, Court Sq.

### Theaters.

Okl., Oklahoma City—Broadway Theater, Inc., R. M. Eacock, Prest., 6 N. Broadway, plans building; \$75,000 to \$100,000; fireproof.

Tex., Dallas—Gene Lewis-Olga Worth Co., Dave Heilman, Bus. Mgr., will reconstruct Cycle Park open air theater lately noted burned at loss of \$50,000.

### Warehouses.

Ala., Alabama City—Gulf States Steel Co., C. A. Moffett, Prest., Birmingham, plans warehouse.

Fla., Tampa—City voted \$600,000 bonds to construct municipal piers and harbor facilities, including warehouses, approaches, etc. Address The Mayor.

Mo., Kansas City—Funsten Electric Co., 1310 Wyandotte St., will erect warehouse; \$45,000; 25x130 ft.; 4 stories and basement; mill construction; pitch and felt roof; hardwood floors; steam heat, \$3000; electric lights. Address Hoyt, Price & Barnes, Archts., Reliance Bldg. (Lately noted under Stores.)

S. C., Florence—Jake Berger will erect tobacco warehouse; \$10,000.

S. C., Ninety-Six—Ninety-Six Cotton Mills will erect building. (See Dwellings.)

Tenn., Knoxville—J. M. Dunn & Son have permit to remodel warehouse and apartment at 317-23 S. Gay St.; brick; cost \$40,000.

N. C., Boone—Watauga County Bank, Boone Hardware Co. and others, will erect bank and store building; cost \$44,400; 100x110 ft.; brick; wood joists; steel beams; composition roof; concrete, tile and hardwood floors; metal ceilings; interior tile; vaults; ventilators; steel sash and trim; low pressure steam heat; 2 stories; C. B. Kearfott, Archt., Bristol, Tenn.-Va.; Mc-Ghee Bros. & Hodges, Contrs., Boone.

Tex., San Antonio—E. H. Perry & Co., will remodel building; \$15,000; C. W. Moore, Contr.

Va., Norfolk—Citizens Bank, T. F. Tilghman, Prest., will remodel building; on Main St. near Granby St.; 1 story; brick; Peebles & Ferguson, Archts., Law Bldg.; E. L. Myers, Contr.

Va., Richmond—Barrister Building Corp. will remodel Stumpf Hotel at 8th and Main Sts. for office building; cost \$60,000 to \$70,000; heating, plumbing and elevators; L. P. Hartsook, Archt., American Nat. Bank Bldg.; M. L. Hubbard, Contr., 24 N. 8th St.

### Churches.

La., New Orleans—Catholic Church, repair building, Carrollton Ave. and Fern St.; \$10,540; Jos. Fromherz, Contr.

### Dwellings.

D. C., Washington—C. N. Cohen; 3 dwellings, 4504-06-08 13th St., N.W.; \$18,000; 2 stories; brick; W. C. Allard, Contr.

D. C., Washington—W. S. Brown; 2-story brick dwelling, 4501 17th St., N.W.; cost \$10,000; George Small, Contr.

D. C., Washington—C. W. Kammon; dwelling, 1021 Buchanan St., N.W.; \$10,000; 2 stories; brick; George Small, Contr.

Fla., Jacksonville—Mrs. M. E. Benedict will erect residence on Lancaster St.; cost \$12,000; 46.9x48.6 ft.; hollow or load bearing tile; tile or galvanized shingle roof; hardwood and pine boars; hollow fireproof and interior tile; 2 Arcola heating units; electric lights; R. Lee Sevil, Archt.-Contr., 1921 Herschell St.

Fla., Orlando—V. W. Estes will erect residence; cost \$16,500; brick over tile; slate roof; hardwood, concrete and tile floors; hollow fireproof and interior tile; hot air heat; Geo. E. Krug, Archt.; J. G. Mannel, Contr.

Ga., Macon—K. W. Dunwoody will erect residence at Rivoli; cost \$10,000; 1½ stories; brick veneer; Colonial cottage design; Dunwoody & Oliphant, Archts.; M. E. Shaw, Contr.

Ga., Macon—T. I. Harris will erect residence; brick veneer; 10 rooms; slate roof; cost \$13,000; Dunwoody & Oliphant, Archts.; M. E. Shaw, Contr.

Ga., Thomasville—Harry Payne Whitney, New York, is reported to erect hunting lodge; \$60,000; contract let.

La., New Orleans—Gustave Lemle will erect residence on Audobon Blvd. and Audubon St.; J. A. Haase, Contr. at \$24,400.

La., New Orleans—Mrs. Wm. C. Althaus; 2 double 2-story dwellings, Magazine and Constance Sts.; Jos. Ulmer, contr. at \$13,680.

La., New Orleans—Thos. Griffin; duplex dwelling and double cottage, Canal and Hennessy Sts.; total cost \$16,500; N. Riviere, Contr.

Md., Baltimore—Soloman Senker; 5 stores and dwellings, Presbury and Ruxton Aves.; cost \$30,000; 20x35 ft.; 2 stories; slag roofs; hardwood floors; metal ceilings; steam heat; B. W. Minor, Archt.-Contr., 224 W. Pratt St.

Md., Baltimore—A. R. Malik will erect

## BUILDING CONTRACTS AWARDED

### Apartment Houses.

La., New Orleans—Dryades Building & Loan Assn. and George Stasi will erect apartment house at Liberty and Jena Sts.; cost \$15,000; 4 stories; John H. Meyer, Contr.

Md., Baltimore—Julius Apartment Corp.; \$100,000 apartments, St. Paul St. nr. 25th St.; 3 stories; 75x76 ft.; 18 apartments of 2 to 4 rooms; brick concrete and wood; slag roof; steam or vapor heat; 4 stores on ground floor; J. E. Moxley, Jr., Archt., 851 Equitable Bldg.; Consolidated Engineering Co., Contr., Calvert Bldg.

Md., Baltimore—Louis Steel Realty Co., 118 W. Baltimore St.; apartments Mr. Royal Terrace and Whitelock St.; \$35,000; 53x74 ft.; ordinary brick; slag roof; hardwood and pine floors; steam heat; electric lights; John Freund, Archt., 1307 St. Paul St.; C. W. Littleton & Son, Contrs., 4313 Liberty Hgts. Ave.

Md., Baltimore—Edward H. Sadler, 28 Light St.; apartment house in Walbrook; \$80,000; 3 stories; 60x60 ft.; brick; slag roof; wood floors; heating not in general contract; Alfred Cookman Leach, Archt., 411 N. Charles St.; Price Construction Co., Contr., Md. Trust Bldg.

Okl., Oklahoma City—Fred Pojesny, 1501 W. 1st St., will erect apartment house at 151 E. Park Pl.; \$15,100; 47x40 ft.; brick veneer; composition roof; concrete and hardwood floors; combination water heat; mail chutes; Minetanka Lumber Co., Archt.; Jack Gill, Contr., 412 W. 23rd St.

Okl., Tulsa—M. J. Glass & Co., 219-A South Main St., will erect apartment house; cost \$80,000; 50x140 ft.; brick and frame; tar and gravel roof; concrete, hardwood and wood block floors; plaster board; interior tile; wire glass; vault lights; ventilators; steel sash and trim; vapor heat, \$10,000; wiring, \$4000; dumb waiter, \$400; C. A. MacDonald, Archt.; construction by Supt. W. C. Shaw; receiving bids for plumbing, heating, wiring and brick work. (Lately noted.)

Tex., Dallas—B. B. Hemphill; building on S. Boulevard; \$24,000; 4 apartments; brick veneer; shingle roof; hardwood and pine floors; Lang & Wittich, Archts.; D. A. Barnett, Contr. (See Machinery Wanted—Electrical Fixtures.)

Tex., El Paso—Frank A. Hughes, 2700 Wheeling St., will erect apartment house at Piedras and Gold Sts.; cost \$45,000; 3 stories and basement; 70x70 ft.; colonial brick; tar

and gravel roof; hardwood floors; hollow fireproof tile; metal ceilings; gravity steam heat; \$4500; plans by owner; H. T. Ponsford & Sons, Contrs.

Tex., San Antonio—W. S. Birney will erect apartment house in block 67, Satterthwaite's addition; cost \$50,000; 60x120 ft.; 2 stories; concrete and hardwood floors; hollow fireproof and interior tile; mail chutes; ventilators; steam heat; electric lights; Ramey Bros., Archts.-Contrs.

Va., Richmond—George Hinds, 1020 Floyd Ave., will erect apartment house on Boulevard; cost \$52,000; 3 stories; 55x68 ft.; 9 apartments; brick; private plans; W. E. Purcell, Contr., 104 N. 8th St.

### Association and Fraternal.

Ky., Owensboro—Knights of Columbus will erect annex; cost \$20,000; 60x100 ft.; steel construction; metal ceilings; pressed brick; 3 stories and basement; auditorium; gymnasium, showers, etc.; Leo Monarch, Contr.

Miss., Vicksburg—Mrs. J. W. Johnson will erect Young Men's Christian Assn. building at Clay and Monroe Sts., George M. Sudduth, Chrmn. Bldg. Comm.; cost \$160,000; 3 stories and basement; brick; concrete, steel and hardwood floors; composition roof; hollow fireproof and interior tile; metal doors; rolling partitions; wire glass; vault lights; steel sash and trim; steam heat, \$12,000; electric lights, \$4500; trunk lift, \$1000; Shattuck & Laver, Archts., Chicago; Underwood Contracting Corp., Contr., New Orleans.

Tex., Cumby—Independent Order Odd Fellows will erect building to replace burned structure; contract let.

Tex., Houston—Young Men's Christian Assn.; gymnasium; \$15,000; 40x70 ft.; brick and concrete; tar and gravel roof; hardwood floors; F. E. Lumwalt, Archt.; C. J. Miller, Contr.

W. Va., Morgantown—Woman's Christian Temperance Union; community house; \$130,000; E. Reece Raker, Contr.

### Bank and Office.

Fla., Tampa—Exchange National Bank. A. C. Clewis, Prest., will erect bank and office building at 601 Franklin St.; 55x105 ft.; 7 stories and basement; steel frame; concrete slab; composition roof; granolithic floors; steam heat; electric lights; 2 gearless elevators; cost about \$500,000; Wellas Bosworth, Archt., care Stone Webster, Inc., Contrs., 147 Milk St., Boston. (Lately noted.)

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

bungalow on Harcourt Rd., Arcadia; \$11,000; John J. Requardt, Contr., 1039 Falls Rd.

Md., Baltimore—Ethel C. Minks will erect bungalow on Groveland Ave., West Arlington; \$11,000; John J. Requardt, Contr., 1039 Falls Road.

N. C., Charlotte—W. F. Kaderly; dwelling on Queens Rd., Myers Park; tile and stucco; \$10,000; MacEwan Engineering Co., Contr.

N. C., Winston-Salem—Trinity Moravian Church; parish house; \$10,000; L. C. Kimmel & Sons, Contrs.

S. C., Anderson—Gluck Mills will erect 4 cottages; \$25,000; W. L. Brissey Lumber Co., Contr. (Lately incorrectly noted under Warehouses.)

S. C., York—Broadus M. Love will erect residence on E. Liberty St.; W. L. Wallace, Contr.

Tenn., Memphis—R. B. Clinton will erect duplex residence at 212 Angelus St.; cost \$12,600; 32x53 ft.; brick veneer; asphalt shingle roof; hardwood floors; rolling partitions; hot water heat, \$1000; electric lights; Clinton Building Co., Archt.-Contr.

Tex., Dallas—O. A. Teal will erect twelve 4 and 5-room cottages on Lindsley St.; cost about \$2300 each; frame; shingle roofs; pine floors; A. S. Childers, Contr.

Tex., Paris—Central Presbyterian Church, H. G. Armstrong, Prest. Board of Trustees, will erect manse; cost \$10,000; 2 stories; brick veneer; Curtis & Lightfoot, Archts., contract let.

Tex., San Antonio—Dr. J. S. Steele will erect residence on Shook Ave.; cost \$13,000; brick, frame and stucco; composition roof; oak and edge grain floors; pipeless furnace heat; Phelps & DeWees, Archts.; Moeller & Weibacher, Contrs.

Tex., San Antonio—Robert C. Scott will erect residence at 3967 Elsmere Place; cost \$10,000; brick and stucco; S. W. Ashley, Contr.

Tex., San Antonio—Dr. T. J. Walthall will erect residence on Linwood Blvd., Monte Vista addition; Adams & Adams, Archts.; Coleman & Jenkins, contrs., at \$38,889.

Va., Richmond—A. F. Perrin, 808 Greenwood Ave., has contract to erect \$20,000 residence; 2 stories; 30x50 ft.; brick; slate roof; hardwood floors; hot water heat; electric lights; L. P. Hartsook, Archt., American Nat. Bank Bldg.

Va., Richmond—A. Boerne Blair, 825 Parke Ave., will erect residence; cost \$22,000; 30x42 ft.; 2 stories, basement and attic; brick; slate roof; hardwood floors; hot water heat; electric lights; L. P. Hartsook, Archt., American Nat. Bank Bldg.; W. H. Snyder, Contr., 124 Norwood St.

Va., Richmond—Lewis H. Bosher, Smith-Courtney Co., will erect residence at Chatham Hills, Westhampton; cost \$40,000; 40x93 ft.; brick and hollow tile; slate roof; hardwood floors; hollow fireproof and interior tile; vapor heat; W. Duncan Lee, Archt., Travelers Bldg.; Claiborne & Taylor, Contrs., 7th and Main Sts.

Va., Richmond—Morgan R. Mills, Prest., Virginia Equipment & Supply Co., will erect residence in Byrd Park; \$20,000; 2 stories; brick; 40x40 ft.; Carneal & Johnston, Archts., Chamber of Commerce Bldg.; J. W. Atkinson & Co., Contrs.

### Government and State.

Tex., Austin—Capitol—State Board of Control, S. B. Cowell, Chrmn., will repair State Capitol; C. H. Page & Bro., Archts.; J. O. Buass & Son, contrs. for repairing roof at \$13,416; Blackmore Bros., repairing steps, \$1057; bids rejected to repair dome.

W. Va., Huntington—Home—State Bd. of

Control, Jas. S. Lakin, Prest., Charleston, will erect building at West Virginia Home for Colored Orphans, Pea Ridge; 115x39 ft.; 3 stories and basement; common brick with face brick and Indiana limestone; slate and tin roof; porches; Warne, Tucker & Patterson, Archts., Charleston; R. Mankin & Co., Contrs., Huntington.

### Hospitals Sanitariums Etc.

Md., Baltimore—Hebrew Hospital & Asylum, will erect laboratory addition at Broadway and Monument Sts.; 2 stories; 42.8x76 ft.; concrete and brick; also porches on 3 floors of main building; cost \$20,000; Joseph Evans Sperry, Archt., 409 Calvert Bldg.; Cogswell-Koether Co., Contr., 406 Park Ave.

Md., Henryton—Board of Managers State Tuberculosis Sanatorium will erect sanatorium for negroes; \$240,000 available; administration building, kitchen and accommodations for 110 beds in first unit; 3 stories; brick and stone; Sill, Buckler Fenhagen, Archts., 11 E. Pleasant St.; Northeastern Construction Co., Contr., Lexington Bldg., both Baltimore. (Lately noted.)

Mo., Platte City—Dr. R. P. C. Wilson will erect sanitarium; G. A. Porter, Contr., St. Joseph; also number of cottages.

Va., Norfolk—Sarah Leigh Hospital, care Dr. Southgate Leigh, will erect nurses' home at Pembroke Ave. and Mowbray St.; cost \$49,949; 5 stories; 57x115 ft.; brick; fireproof; Wickham C. Taylor, Archt., Citizens Bank Bldg.; Johnson Construction Co., Contr., Law Bldg.

### Hotels.

W. Va., Welch—Carter Hotel Co., S. E. Carter and others, will erect hotel; cost \$150,000; 5 stories and basement; 72x85 ft.; Garry & Sheffey, Archts., Box 411, Bluefield; Green & Stowe, Gen. Contrs., Weten; McClintic-Marshall Co., Pittsburgh, Pa., will furnish and erect structural steel; Berger Mfg. Co., Canton, O., steel joists and laths. (Lately noted in detail.)

### Miscellaneous.

Ala., Troy—Orphanage—Baptist Orphanage, W. A. Davis, Chrmn., Bldg. Comm., will erect 3 cottages; 2 stories; fireproof; brick; accommodate 30 children each; J. P. Wood & Sons, Contrs., Troy; ultimate plans provide 8 cottages, administration building, heating plant, laundry and minor buildings; \$150,000 available; Frank Lockwood, Archt., Montgomery.

Fla., Tampa—Social Center—Roman Catholic Social Center will erect building; cost \$50,000; 42x128 ft.; 3 stories; brick; steel columns and beams; composition roof over concrete; steel lumber joists; concrete and wood floors; metal doors; steel sash and trim; ventilators; gas heat; electric lights; plans by owner; G. A. Miller, Contr., 28-30 Petteway Bldg.

Fla., Yalaha—Clubhouse—Yalaha Yacht Club, Roland James, Chrmn. Comm., will erect clubhouse; Wilbur West, Leesburg, and Melvin W. Pantley, Yalaha, Contrs.; A. J. MacDonough, Archt., Eustis, will supervise construction.

Ky., Henderson—Grand Stand, etc.—Green River Jockey Club, Bradley Wilson, Mgr.; grand stand and 14 stables at Dade Park; former, steel and concrete; seat 5000; latter, concrete; 34 stalls each; contract let.

Tex., Paris—Clubhouse—Lamar Country Club, Frank Simmons, Prest., will erect building 3 mi. from Paris; cost \$15,000, including light plant, septic plant and water supply; Curtis & Lightfoot, Archts.; Reese & Burford, Contra.

### Railway Stations, Sheds, Etc.

Ga., Quitman—South Georgia Ry. Co., J. W. Oglesby, Prest., will erect passenger and freight depot to replace structure lately noted burned; cost \$10,000; 60x200 ft.; frame; metal roof; wood and cement floors; contract let.

### Schools.

Ala., Tuscaloosa—City Board of Education, C. W. Weatherford, Chrmn., will erect additions to West End and Stafford schools; former, 4 rooms and auditorium; latter, 8 rooms and auditorium; D. O. Whilldin, Archt., Birmingham; M. L. Waddell, contr. at \$21,500 and \$33,800; O. T. Cole, heating and plumbing, \$4139 and \$6397; Elebash Electric Co., wiring.

Mo., Columbia—University of Missouri, Edw. E. Brown, Bus. Mgr., will erect mechanic arts building and extension to medical building; Jas. P. Jameson and Geo. Spearl, Archts., Arcade Bldg., St. Louis; Collins Bros., Kansas City, Contrs.; heating, Echler Heating Co., St. Louis, \$3955; plumbing, J. P. Wright, Joplin, \$1998; electric wiring, J. K. Fyter and Jno. L. Platt, Columbia.

Mo., Marshall—Board of Education will erect Eastwood grade school; cost \$35,000; Ed. Pahe, Contr.; also erect Benton grade school; cost \$35,000; Will Gollong, Contr.

N. C., Davis—Carteret County Board of Education, Beaufort; schools at Davis, Stacy and Sealevel; \$180,000; brick; Guthrie Bros., Contrs., Morehead City.

N. C., Elon College—Board of School Trustees will erect Hub High School; 150x122 ft.; 12 classrooms, 6 executive rooms, auditorium and 30x80-ft. lodge room; G. Larsen, Contr.; Herbert Hunter, Archt., Burlington, will supervise construction.

N. C., Sealevel—Carteret County Board of Education, Beaufort; school. (See N. C., Davis.)

N. C., Stacy—Carteret County Board of Education, Beaufort; school. (See N. C., Davis.)

S. C., Charleston—The Citadel, Jno. P. Thomas, Chrmn., Bldg. Comm., 27 Cumberland St.; infirmary at Greater Citadel, Hampton Park; \$52,950; main wing 138x40 ft., ward 35x85 ft.; 1 story; brick, stucco, hollow fireproof and interior tile; Barrett and Spanish tile roofs; linoleum cemented to concrete slab floors; metal doors; heat from central plant; Lockwood, Greene & Co., Engrs., Healey Bldg., Atlanta, Ga.; Charleston Engineering & Construction Co., Contr., Charleston.

Tex., Goose Creek—Goose Creek Independent Dist. School Trustees, Geo. T. Galloway, Prest., will erect high school, ward school, Bay Town and negro school; C. H. Page & Bro., Archts., Austin; Depuy & Ranney, San Antonio, contr. at \$148,000; Wright Bros., wiring, \$2250; Barber Co., Houston, plumbing, \$5745; Kenison Bros., Dallas, heating, \$14,898.

Tex., Breckenridge—School Board will erect ward school; cost \$70,000; 3 stories; concrete and brick; wood floor joists; Clarkson & Gaines, Archts., First Natl. Bank Bldg., Fort Worth; Central Construction Co., Contr., Dallas and Houston.

Tex., San Antonio—School Board will erect building at Alamo Heights; 70x115 ft.; 3 stories; brick and concrete; tar and gravel roof; wood and cement floors; steam heat; M. L. Waller & Co., Archts., Brady Bldg., San Antonio; L. E. Shelton, Houston, contr. at \$58,530. (Lately noted.)

Tex., Spearman—School Board will erect 5-room addition to building; domestic science,

manual training and commercial department.

Va., Danville—Averett College, Jas. P. Craft, Prest., will erect building; cost \$40,000; 40x70 ft.; metal roof; wood and tile floors; steam heat, \$2500; electric lights; first floor, swimming pool, shower baths, dressing rooms; gymnasium above; 2 top floors, dormitory rooms; Chesterman & Heard, Archts.; Osborne & Son, Contrs.

Va., Wytheville—Villa Maria Academy, Elsie Lempe, Mgr., will erect building; cost \$50,000; 60 rooms; D. F. Harwell, Contr.; Aladdin Co., Wilmington, N. C., will supply material.

W. Va., Elkview—Elk Dist. Board of Education, D. W. Hunt, Supervisor, Elk View, will erect high school; cost \$36,500; 6 rooms; brick; Dyer & Son, Contrs., Charleston.

### Stores.

Fla., Tampa—South Florida Stores Corp. will erect building at 510 Grand Central Ave.; cost \$13,000; 111x70 ft.; brick; B. F. Walker & Son, Contrs.

Ga., Augusta—Central Investment Co. will erect building on Board St.; cost \$40,000; 2 stories; granite terra cotta; G. Lloyd Preacher & Co., Archts.; C. H. Van Ormer, Contr.

Ga., Columbus—Jas. A. Lewis; \$31,000 building, 113-15 12th St.; 2 stories; 50x125 ft.; brick; Barrett roof; wood floors; basement, concrete; steam heat; electric freight elevator; F. Roy Duncan, Archt. Address A. C. Bedford, Contr.

Ky., Benham—Wisconsin Steel Co. (subsidiary of International Harvester Co., Chicago) will erect stores, theater, post office, doctor's office, etc.; cost about \$300,000; brick and concrete; Aberthaw Construction Co., Contr., Atlanta, Ga.

Miss., Clarksdale—L. Sidney Landry; \$20,000 building; 51x100 ft.; steel and concrete; concrete and wood floors; hot water heat; Frank P. Gates & Co., Archts.; Ed. Leigh, Contr.

N. C., Charlotte—Walter Lambeth; 2-story building on E. Trade St., nr. Brevard; \$22,000; gun metal brick front; tile canopy above; 2 stories on first floor; two 6-room apartments, second; Myers Park Homes Co., Contr.

N. C., Durham—R. H. Wright will erect building to replace structure lately noted burned at loss of \$25,000; N. Underwood, Contr.

Tex., Austin—E. H. Perry Co.; remodel 2-story building on E. 5th St.; \$15,000; C. W. Moore, Contr.

Tex., Dallas—Boren-Stewart Grocery Co., Hyman Pearlstone, V.P., Gen. Mgr., will erect building at Young and De Soto Sts.; cost \$125,000; 100x150 ft.; 2 stories; brick; cold storage plant in basement; Lang & Witchell, Archts.; Trinity Construction Co., Contr.

Tex., Floydada—A. D. White Seed & Produce Co. will erect building; cost \$15,000; 50x100 ft.; brick; tar and gravel roof; cement floors; metal ceilings; wire glass; H. E. Canedy, Contr.

Va., Portsmouth—Farrish Estate will repair building at High and Eflingham Sts. lately noted damaged by fire; cost \$35,000; R. K. Revell, Contr.

### Theaters.

Ky., Benham—Wisconsin Steel Co. will erect theater; Aberthaw Construction Co., Contr., Atlanta, Ga. (See Stores.)

### Warehouses.

Fla., Miami—South Atlantic Telephone & Telegraph Co. will erect warehouse and garage; \$10,000; 40x100 ft.; concrete; composition roof; concrete floors; E. R. Wolfe, Contr.

Ga., Albany—Albany District Pecan Exchange, Wm. Bullard, Prest., will erect warehouse and factory; \$20,000; 60x95 ft.; 2 stories and basement; brick and mill construction; Barrett roof; pine and maple floors; elevator; M. J. Reidy, Archt.; A. E. Ittner & Co., Contrs.

Okla., Chickasha—Washita Valley Broom Corn Storage Co., Geo. J. Lins, Mgr., will erect warehouse to replace structure lately noted burned; cost \$25,000; 60x200 ft.; 1 story; brick and structural steel; Chas. Steckler Co., Contr.; also manager's office; 30x40 ft.; 2 stories; brick.

S. C., Florence—Howard Cannon will erect warehouse; cost \$15,000; 17,000 ft. floor space; brick; Haynsworth & Lawton, Contrs.

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

**Absorbent Cotton Machinery.**—Chas. C. Buchner, Corpus Christi, Tex.—To purchase machinery for mfrs. of absorbent cotton.

**Band Wheel.**—Guyan Machine Shops, Logan, W. Va.—Band wheel for 6 ft. Smith, Myers & Schnier band mill.

**Battery Supplies.**—Hydro-Battery Co., of Tenn., Box 776, Memphis, Tenn.—Prices on automobile storage battery supplies.

**Boat (Steel, Fire).**—New Orleans Port Commrs., R. S. Hecht, Prest., New Orleans Court Bldg., New Orleans, La.—Bids until June 29 to build and deliver steel screw fire boat; plans with S. Young, Chief Engr., 1 Canal St.

**Belt and Shafting.**—International Lumber & Shook Co., 318 Forrest Bldg., Philadelphia, Pa.—Belt and shafting for woodworking plant.

**Boiler.**—Mims Speake & Co., Luray, Va.—Prices on 80 to 100 H. P. boiler, good condition; send description.

**Boring and Turning Mill.**—Davis Foundry & Machine Works, Rome, Ga.—Ten 14-ft. boring and turning mill.

**Bottles (Ink).**—C. Fred Hunt, Somerset Ky.—To correspond with mfrs. of or dealers in ink bottles.

**Bottles.**—Harry Scuffres, Princess Cafe, Greenville, S. C.—To correspond with mfrs. of bottles for maple syrup.

**Boxes (Crating).**—Harry Scuffres, Princess Cafe, Greenville, S. C.—To correspond with mfrs. of grating bodes, tinware, etc., for maple syrup.

**Brass Melting Outfits.**—R. F. Forkner, Mgr., Princeton Automobile Accessories Co., Princeton, W. Va.—Lowest prices on small brass melting outfits; bids open.

**Bridge Construction.**—Campbell County Highway Commrs., Jesse L. Rogers, Chrmn., Jacksboro, Tenn.—Bids until June 16 to build following bridges:

Four concrete bridges on Road No. 5, from Red Ash to Pioneer.

Three concrete bridges on Road No. 9 from LaFollette to Claiborne County line plans, etc., from D. C. Rogers, Chief Engr., LaFollette, Tenn.

**Bridge Construction.**—State Highway Dept., Columbia, S. C.—Bids until June 14 for following:

Sta. 804-50, on Yemassee-Fairfax road, between Varnville and Yemassee.

Sta. 820-40, on Yemassee-Fairfax road, between Varnville and Yemassee; both Hampton County, Federal Aid Project No. 41; reinforced concrete or creosoted timber trestle; plans, etc., from State Highway Engr.

**Bridge Construction.**—State Highway Dept., Jefferson City, Mo.—Bids until June 9 for following:

Federal Aid Project No. 174, Section A—Bollinger County, over Gimlet Creek, State road from Lutesville southeastward, Sta. 816 plus 10; 60-ft. steel truss span, wood floor; 2 reinforced concrete abutments; 18-ft. roadway.

Federal Aid Project No. 174, Section B—Bollinger County, over Crooked Creek, State road from Wayne County line to Cape Girardeau County line; Sta. 1005 plus 61; 100-ft. deau County line; Sta. 1005 plus 61; 1w0-ft. steel truss span; two 40-ft. I beam spans; wood floor; 2 concrete abutments, 2 reinforced concrete piers; 18-ft. roadway.

Federal Aid Project No. 174, Section B—Bollinger County, over Hurricane Creek, State road from Wayne County Line to Cape Girardeau County line; Sta. 1081 plus 36; 100-ft. steel truss span; two 25-ft. I beam spans; wood floor; 2 reinforced concrete piers; 2 reinforced concrete abutments; 18-ft. roadway.

Federal Aid Project No. 174, Section B—Bollinger County, over Hog Creek, State road from Wayne County line to Cape Girardeau County line, Sta. 1251 plus 70; 80-ft. steel truss span, wood floor; 2 reinforced concrete abutments; 18-ft. roadway.

Federal Aid Project No. 174, Section B—Bollinger County, over Drunkards Creek, State road from Wayne County line to Cape Girardeau County line, Sta. 1209 plus 10; 30-ft. reinforced concrete thru girder span; 2 concrete abutments; 18-ft. roadway; M. S. Murray, Div. Engr., Sikeston, Mo.

**Bridge Construction.**—State Highway Department, Nashville, Tenn.—Bids until June 9 to build 20-ft. concrete and steel span bridges between Pikeville and Rhea County line; plans, etc., from D. Q. McComb, Chief Engr., Nashville, and Div. Engr., James Bldg., Chattanooga, Tenn.

**Bridge Construction.**—Jefferson County Bd. of Revenue, Birmingham, Ala.—Bids until June 27 to build 60-ft. reinforced concrete bridge over Village Creek, on Norwood-Inglebrook road; plans, etc., from C. J. Rogers, County Highway Engr.

**Bridge Construction.**—Franklin County, R. L. Wiley Co., County Road Engr., Forks of Elkhorn Ky.—Bids until June 8 to build bridge at Bowen's Branch; plans, etc., from County Court Clerk.

**Bridge Construction.**—City, O. Coffman, Mayor, Chickasha, Okla.—Bids until June 8 to build 85-ft. reinforced concrete bridge over Line Creek at 6th St.; both 20 and 30-ft. roadway; either cantilever or arch type; plans, etc., from J. R. Wellborn, City Clerk.

**Building Material.**—Homer I. Messick, care Homeseekers Realty Co., 109 S. E. First Ave., Miami, Fla.—Hollow tile, glass and mirrors, ornamental tile, hardware, hardwood flooring, ornamental columns, caps and bases, nails, galvanized iron and black iron pipe, cement, sand, plaster, rock, shingles, lumber.

**Buffer (Electric).**—Super Electric Co., 222 E. Main St., Norman, Okla.—4, 6, 8, and 10-in. buffer, electrically driven.

**Building Materials.**—Felstone Co., 326 Haywood, Bldg., Asheville N. C.—Catalogs and

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prices on building materials for residences including, surfaced and rough lumber; shingles including slate; all kinds of brick; sash and frames; gray and white cement; hardware for sash and butts; plumbing fixtures; paints, stains and varnishes.

**Butter Mfg. Equipment.**—John Marlin, Tullahoma, Tenn.—Correspondence with mfrs. of butter-making equipment; desire complete information.

**Camera Films.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until June 12 to furnish 50 rolls films for K-1 camera, autochromatic, 24 c. m. x 75-ft. in soldered tins; delivery Naval Operating Base, Hampton Roads, Va.; plans on file; Sch. 394.

**Castings (Brass).**—R. F. Forkner, Manager Princeton Automobile Accessories Co., Princeton, W. Va.—Lowest prices on small brass castings; bids open.

**Cement.**—J. A. Ellison, Mgr., Shawner Construction Co., Lansing, W. Va.—Prices on cement.

**Cement (Gray and White).**—See Building Materials.

**Chairs.**—R. H. Hunt Co., Southwest Life Bldg., Dallas, Tex.—See Furniture (School).

**Chair Material.**—A. D. Maxwell, 100 Forrest Ave., Atlanta, Ga.—To correspond with dealers in round chair wood.

**Coal.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until June 12 to furnish 21,000 ton bituminous coal, delivery to Marine Barracks, Parris Island, S. C.; 600 tons, delivered to Marine Barracks, Quantico, Va.; specification on file; Sch. 5-1923.

**Concrete Bulkheads.**—Navy Dept., Bureau of Yards and Docks, Washington, D. C.—Bids until June 14 to construct concrete bulkhead, runway beach, replacing timber bulkhead at Naval Air Station, Pensacola, Fla.; Spec. 4644, obtainable at bureau or Commandant at Pensacola.

**Cornice Brake.**—Super Electric Co., 222 E. Main St., Norman, Okla.—4, 6, 8, and 10-ft. cornice brake.

**Crane (Electric).**—Pennsylvania Equipment Co., Norwood, Pa.—Second-hand electric traveling crane, 10 ton capacity, 25 to 35 ft. span, 220 volts, 25 cycles, A. C.

**Crane (Locomotive).**—Kentucky Sand Co., 11th and Lowell Sts., Newport, Ky.—Prices on second-hand locomotive crane with  $\frac{3}{4}$  cu. yd. bucket, 30 to 40-ft. boom.

**Crane.**—J. S. Hodges, Secy.-Treas., Fire Grate Radiator Heating Corp., 913 Jacksboro St., Knoxville, Tenn.—5-ton traveling crane, 23 ft. span, hand controlled.

**Culvert Construction.**—City, O. F. Holcombe, Mayor, Houston, Tex.—Bids opened June 5 to build reinforced concrete culvert on Leeland Ave. road; plans, etc. from City Engr.

**Desks.**—R. H. Hunt Co., Southwest Life Bldg., Dallas, Tex.—See Furniture (School).

**Drainage Structures.**—State Road Dept., H. B. Phillips, Chrmn., Tallahassee, Fla.—Bids until June 12 to furnish materials, etc. for drainage structures; 400 cu. yds., class A. concrete and 48,000 lbs. reinforcement steel in about 39 culverts on section of road 2 in Marion County, between Bellevue and Lake county line; plans on file; Wm. F. Cooke, State Highway Engr.

**Drainage.**—Egypt-Prairie Drainage Dist. of Carroll County, J. H. Franken, Secy., Norborne, Mo.—Bids until June 20 to construct ditch drag line work, 315,000 yds. excavation; plans with Secy. or Clark E. Jacoby, Conslt. Engr., Shukert Bldg., Kansas City, Mo.

**Drainage.**—Jackey Camp Drainage Dist., Commrs., W. J. Long, Chrmn., Townsend,

Ga.—Bids until June 20 to construct  $6\frac{1}{2}$  mi. drainage ditches, 110,489 cu. yds. excavation; Will D. Alexander, Drainage Engr., 207 Monroe Rd., Charlotte, N. C.

**Engines.**—Stevens Bros. & Co., 806 Forsyth Bldg., Atlanta, Ga.—One 50 H.P. and one 250 H.P. Corliss engines; good type and cheap.

**Drill Press.**—Super Electric Co., 222 E. Main St., Norman, Okla.—Small size drill press.

**Dynamite, etc.**—Panama Canal, A. L. Flint, Gen. Pur. Officer, Washington, D. C.—Bids until June 6 to furnish 120,000 lbs. dynamite; 1000 electric detonators. Blank forms and information (Circular 1484) on application to offices of Panama Canal; Asst. Pur. Agts. at Fort Mason, San Francisco, Cal.

**Electric Fixtures.**—Homer I. Messick, care Homeseekers Realty Co., 109 S. E. First Ave., Miami, Fla.—Electric fixtures, wiring, etc.

**Electric Light Plant.**—City of Livingston, Texas, Carl Sory, Mayor.—Bids until June 6 to construct electric light plant and 2300 volt electric distribution system; plans and specifications on file at office of E. E. Sands, 427 Mason Bldg., Houston, Conslt. Engr., or at office of Mayor.

**Electric Transmission Line.**—Town of Eldorado, Okla., J. P. DeLoach, Clk.—Bids until June 10 for furnishing materials and constructing 13,200 volt, 3 phase, high tension line triangle construction between Quanah, Texas and Eldorado; plans on file at office of Town Clk.

**Hydro-Electric Equipment.**—Judge Edward C. O'Rear, Frankfort, Ky.—Information on hydro-electrical equipment. (See Water Works.)

**Electrical Supplies.**—Eureka Electric Co., Harry Cohen, 5 W. Pratt St., Baltimore, Md.—Electric supplies including magnet wires of every size, insulating materials for electric motors.

**Elevators.**—Dr. W. C. Tate, Lees-McRae Institute, Banner Elk, N. C.—Elevators.

**Elevator (Passenger).**—Treasury Dept., Supvgs. Archt.'s Office, Washington, D. C.—Bids until June 20 to install complete full magnetic control electric passenger elevator, etc. in U. S. Post Office and Court House, Lynchburg, Va.; plans on file.

**Elevators, etc.**—J. H. King, Mayor, Teague, Tex.—Hand-power elevator; elevator enclosure, hand power dumbwaiter.

**Elevators, (Electric and Hand Power).**—Miami Mattress Co., Rich. M. Wells, Propr., Miami, Fla.—Electric and hand-power elevators.

**Emery Wheel.**—Super Electric Co., 222 E. Main St., Norman, Okla.—Emery wheel complete.

**Engine.**—Gulf Land & Lumber Co., Conshatta, La.—Prices on small Shay or motor-driven engine.

**Engine (Gasoline).**—J. A. Ellison, Mgr., Shawner Constr. Co., Lansing, W. Va.—Prices on gasoline engines.

**File Cases (Metal).**—Treasury Dept., Supervising Archt.'s Office, Washington, D. C.—Bids until June 21 for metal file cases to be installed in room 413, U. S. Treasury Bldg., plans on file.

**Flooring.**—J. M. Brinkley, Chrmn., School Board, Valdeese, N. C.—Maple flooring, for school; 152x142 ft.

**Flooring.**—Board of Awards, Richard Gwinn, City Register, Baltimore, Md.—Bids until June 7 to furnish and lay natural lake asphalt mastic floor in control house at Back River Sewage Treatment Works; plans with A. E. Christliff, Highway Engr., Room 8, City Hall.

**Foundry Supplies.**—J. S. Hodges, Secy.-Treas., Fire Grate Radiator Heating Corp., 913 Jacksboro St., Knoxville, Tenn.—Ordinary foundry supplies.

**Furniture (School).**—R. H. Hunt Co., Southwest Life Bldg., Dallas, Tex.—Desks and chairs for 3-story high school, home economics cottage and 2-story negro school at Beaumont, Tex.

**Gates (Folding).**—New Orleans Port Commrs., J. H. Walsh, Gen. Mgr., New Orleans Court Bldg., New Orleans, La.—Bids until June 22 to furnish and erect 22 folding gates for roadway opening in sheds; plans with Supvr. of Purchases, 1 Canal St.

**Generator (Electric).**—A. S. Partin, Raleigh, N. C.—100-volt generator for small power house; to furnish about 500 lights.

**Hardware.**—J. Freeman Williams, Pres., Woodstock Mfg. Co., Center and Hassan Sts., Charleston, S. C.—Prices on corner irons, hasps, hinges, etc., for shipping boxes, trunks, etc.; correspond with mfrs.

**Hardware.**—See Building Materials.

**Heating (Steam) Plant.**—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until June 19 for steam heating plant at U. S. Quarantine Station, Baltimore, Md.; plans on file or with Custodian at quarantine station.

**Hoister, etc.**—Saml. T. Williams, 223 N. Calvert St., Baltimore, Md.—Small hoister with either one or two drums and swinger, with or without electric motor, A. C., 3 phase, 25 cycle, 220 volts, or can use gasoline engine, 8 to 10 H. P.

**Ink Mixing Machine.**—T. A. Bullard, La-Pine, Ala.—Machine 50 to 100 gal. capacity for mixing ink.

**Ink-wells.**—Young-Tucker Mfg. Co., Darlington, S. C.—To correspond with mfrs of inkwells.

**Iron (Corrugated Enclosure).**—Board of Awards, Richard Gwinn, City Register, Baltimore, Md.—Bids until June 14, corrugated iron enclosures over areas at school No. 99, Washington St. and North Ave.; J. W. Crowther, Inspector of Buildings.

**Kettles (Aluminum), etc.**—Sam. V. Ashton, 1444 Miami Ave., Miami, Fla.—Aluminum kettles, copper pressure cookers, etc.

**Kettles (Tar).**—E. P. Lindsay, 607 Middle St., Portsmouth, Va.—Tar kettles, correspond with mfrs. of used equip.

**Labels.**—Harry Scuffes, Princess Cafe, Greenville, S. C.—To correspond with printers of fancy labels.

**Laboratory Equipment.**—R. H. Hunt Co., Southwest Life Bldg., Dallas, Tex.—Laboratory equipment for 3-story high school, home economics cottage and 2-story negro school at Beaumont, Tex.

**Lamps (Incandescent).**—Board of Awards, Richard Gwinn, City Register, Baltimore, Md.—Bids until June 7 to furnish and deliver incandescent lamps to various city depts.; information on application to J. Reese Pitcher, City Purchasing Agent.

**Lathes.**—R. F. Forkner, Mgr., Princeton Automobile Accessories Co., Princeton, W. Va.—Lowest prices on (Fox) lathes; bids open.

**Locomotive.**—Gulf State Land & Lumber Co., Conshatta, La.—Prices on small Shay or motor driven locomotive.

**Locomotive.**—See Logging Equipment.

**Logging Equipment.**—C. L. Seyler, Mgr., C. L. Seyler, Lumber Co., Bluefield, W. Va.—To purchase about Sept. 1, three tract mile light steel rails and light locomotive.

**Lumber.**—J. M. Brinkley, Chrmn., School Board, Valdeese, N. C.—Framing, 2 $\frac{1}{2}$ x12-in. 24-ft. pine for school; 152x142 ft.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

**Lumber.**—International Lumber & Shook Co., 318 Forrest Bldg., Philadelphia, Pa.—Interested in output of small air dried North Carolina pine lumber mills.

**Lumber.**—J. A. Ellison, Mgr., Shawner Construction Co., Lansing, W. Va.—Prices on finished lumber.

**Machine Shop Equipment.**—Eureka Electric Co., Harry Cohen, 5 W. Pratt St., Baltimore, Md.—Lathe, grinder, drill press, vises, stocks and dies, cutting tools, shafting, motors, etc.

**Machine Shop Equipment.**—J. W. Lockwood, Contr., Paducah, Ky.—Prices on light shop mchy.

**Marine Railway.**—Thomas F. Carey Co., 120 Liberty St., New York City—Marine Railway, capacity up to 1000 tons; Southern delivery; state prices, description and location for inspection.

**Metal Polishing Equipment.**—R. F. Forkner, Mgr., Princeton Automobile Accessories Co., Princeton, W. Va.—Lowest prices on buffing outfits for small brass castings.

**Melting (Steel) and Pouring Pots.**—Southern States Equipment Co., 712 Canal Commercial Bldg., New Orleans, La.—To correspond with mfrs. of melting and pouring pots.

**Mill (Hornity).**—D. F. G. Harry, Grover, N. C.—Prices on hominy mill.

**Miscellaneous Supplies.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids opened June 8 to furnish deep well pump, wood water tank and steel tower, centrifugal or rotary pump, fire hydrants, valves, pipe, pipe cutter, stocks and dies, Stillson wrenches vise, fire hose, hose cart, etc.; delivery to Marine Barracks, New York City; packed for oversea shipment; plans on file; Sch. 386.

**Miscellaneous Supplies.**—Panama Canal, A. L. Flint, Gen. Pur. Officer, Washington, D. C.—Bids until June 14 to furnish brass tubing; non-ignitable or flame-proof wire; barber wire; unions; track bolts; steel rivets; brass hinges; brass screws; water-cooler faucets; grindstones; flax packing; hemp twine; towels; chalk; whitening, lime and poplar lumber. Blank forms and information (Circular 2294) on application to Panama Canal; Asst. Pur. Agents at Fort Mason, San Francisco, Cal.

**Miscellaneous Supplies.**—Chief Clerk of Dept. of Commerce, 9th and Penna. Ave., N. W., Washington, D. C.—Bids opened June 1 for laundering towels, etc.; hauling of ashes and rubbish; lettering and numbering in Commerce Building for Dept. of Commerce; furnishing stamps, rubber for marking life preservers during fiscal year ending June 30, 1923; further information on application.

**Mixing (Feed) Machinery.**—Eugene D. Reynolds, Jr., Centreville, Ala.—To correspond with mfrs. of machinery for grinding and mixing corn, oats, alfalfa, molasses, salt, etc., into mixed feed for stock.

**Motors.**—See Machine Shop Equipment.

**Motor Cycles.**—Chas. W. Worley, Honaker, Va.—To correspond with mfrs. of motor cycles.

**Nursery Supplies.**—Rio Grande Valley Citrus Industries, Bank L. Miller, Gen. Mgr., San Juan, Tex.—Nursery stocks and supplies of all kinds.

**Oil Engine.**—Bertrig Bros., Paragould, Ark. Prices on oil engine.

**Paints, Stains, etc.**—See Building Materials.

**Painting.**—Board of Awards, Mayor Wm. F. Broening, Prest., Baltimore, Md.—Bids until June 14 on interior painting Northeastern and Eastern police stations; drawings

and specifications from office J. F. Crowther, Inspector of Buildings, City Hall.

**Paint Making Machinery.**—Carbo Chemical Co., Blanchard, La.—To correspond with mfrs. of or dealers in paint making machinery.

**Paper, etc.**—Treasury Dept., General Supply Committee, Washington, D. C.—Bids until June 12 to furnish certain items of paper and paper articles used by Executive Dept. and other establishments of Government; specifications and proposals for class 1; further information on application to Supply Committee, Auditors Bldg., 14th and B Sts., S. W.

**Paper Fibre Twine Machinery.**—A. D. Maxwell, 100 Forrest Ave., Atlanta, Ga.—To correspond with mfrs. of or dealers in machinery to make paper fibre twine or rope used in making furniture.

**Paving.**—Town, A. Summerlin, Mayor, Winter Haven, Fla.—Bids until June 6 to construct about 120,000 sq. yds. street paving, with necessary curb, gutter and drainage; plans, etc., from M. L. Hinderliter, Clk., or H. S. Jaudon Engrg. Co., Engr., Elberton, Ga.

**Paving.**—City, P. C. Painter, Mgr., Greensboro, N. C.—Bids in about 30 days to construct 70,000 sq. yds. street paving; asphalt, concrete, brick and durax; Geo. E. Finck, Highway Engr.

**Paving.**—City, John Collier, Mgr., Beaufort, S. C.—Bids until June 25 to construct 7000 sq. yds. concrete or cement sidewalks; plans, etc., on file.

**Paving.**—Town, G. G. McKerrall, Mayor, Marion, S. C.—Bids until June 20 to construct 20,000 sq. yds. street paving; 18,000 sq. yds. sidewalk paving; 10,000 lin. ft. curb and gutter; plans, etc., from Johnson & Roberts, City Engr.

**Paving.**—City, C. H. Fulwiler, Mayor, Brickenridge, Tex.—Bids until June 13 to grade 21,500 cu. yds.; pave 86,000 sq. yds. with vertical fibre, Warrenite bitulithic, Uvalde rock asphalt, asphaltic concrete, reinforced concrete; all on concrete, macadam or crushed stone base; 31,000 lin. ft. concrete curb and gutter; construct reinforced concrete bridges, culverts, etc.; plans, etc., from City Engr., Breckenridge; John B. Hawley, Cotton Exchange Bldg., Fort Worth, and E. E. Sands, Mason Bldg., Houston, Tex.

**Paving.**—City, D. H. Hamrick, Clk., Clarksburg, W. Va.—Bids until June 19 to construct 1900 lin. ft. 8-in. armored curb; 750 cu. yds. concrete base; 4200 sq. yds. 3-in. vertical fibre base; 1500 cu. yds. grading; plans, etc. from City Mgr. and City Engr.

**Paving.**—City, J. W. Motte, Director Public Works, Savannah, Ga.—Bids opened June 7 to pave following:

West Broad St. from Gwinnett to 31st Sts.; 8300 sq. yds., Waters Ave. from intersection Estill and Dale Aves. to 4th St. and Daffin Park; 5500 sq. yds.; 32nd St. from Barnard to Jefferson Sts.; 1060 sq. yds.; 33rd St. from Barnard to Jefferson Sts.; 1060 sq. yds.; Drayton St., from 40th to Estill Ave.; 2606 sq. yds.; all sheet asphalt or bitulithic, asphaltic concrete, plain concrete, and vibrolithic concrete; resurface Abercorn St. from Oglethorpe to Liberty St.; 2000 sq. yds.; sheet asphalt, asphaltic concrete or bitulithic; plans, etc., on file.

**Paving.**—City of Paducah, Ky., Henry A. Pulliam, Engr.—Prices on sheet asphalt, 2-in. thick to cover old macadam base.

**Paving.**—City, Board of Awards, Wm. F. Broening, Prest., Baltimore, Md.—Bids until June 7 to grade and pave with cement concrete alleys in Contracts Nos. 84 and 85; plans, etc., on file; A. E. Christhill, High-

ways Engr.; H. G. Perring, Chief Engr.

**Paving.**—City, Board of Awards, Wm. F. Broening, Prest., Baltimore, Md.—Bids until June 7 to grade, pave with cement concrete footways in Contracts Nos. 11 to 16; A. E. Christhill, Highways Engr.; H. G. Perring, Chief Engr.

**Paving Equipment.**—F. B. Wilkes, Supt. Highways, Columbia, Tenn.—Paving equipment, including wagon loaders, road forms.

**Paving Materials.**—Runnels County, U. Stephens, County Engr., Ballinger, Tex.—Paving materials, including cement and road oil.

**Paving Materials.**—F. B. Wilkes, Supt. Highways, Columbia, Tenn.—Paving equipment, including asphalt, road oil, road binders.

**Paving Materials.**—City, H. J. Graeser, Mayor, Tyler, Tex.—Paving materials, including asphalt and brick.

**Periodicals.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until June 12 to furnish 1 year's subscription to various magazines, newspapers, etc., to be delivered to various posts and offices of Marine Corps; Sch. No. 4-1923; further information on application.

**Piling.**—Port Comsn., R. S. Sterling, Chmn. of Construction, Houston, Tex.—Bids until June 16 to construct 2 cluster of pilings in Houston ship channel; plans with B. C. Allin, Director of Port.

**Piping, Wiring, etc.**—G. H. Cairns, City Mgr., Gainesville, Fla.—Bids until July 3 to furnish all material and labor to construct addition, piping and wiring systems for municipal light and water plant; plans with City Mgr. or Robert & Co., Archt. & Engr., Red Cross Bldg., Atlanta, Ga.

**Pipe Fittings, etc.**—Newton Giant Incubator Corp., Harrisonburg, Va.—To correspond with mfrs. of malleable pipe fittings, to purchase 1½-in. street tees with male run and female side outlet.

**Pipe (Reinforced Concrete and Vitrified Pipe).**—Board of Awards, Richard Gwinn, City Register, Baltimore, Md.—Bids until June 7 to furnish and load reinforced concrete pipe for the use of Highway Engr.; also furnish and deliver vitrified terra cotta sewer pipe to Highway Engr. Dept.; specifications with A. E. Christhill, Highways Engr., Room 8, City Hall.

**Pipe (Wrought Iron), etc.**—Bd. of Awards, Richard Gwinn, City Register, Baltimore, Md.—Bids until June 7 to furnish and deliver galvanized wrought iron pipe and couplings to Water Dept.; plans with Wm. A. Megraw, Water Engr., Room 207, City Hall.

**Planer.**—C. W. Vilott, McAlester, Okla.—Small planer.

**Planer.**—J. A. Ellison, Mgr., Shawner Construction Co., Lansing, W. Va.—Prices on planer.

**Plumbing Fixtures.**—See Building Materials.

**Plumbing.**—Homer I. Messick, care Home-seekers Realty Co., 109 S. E. First Ave., Miami, Fla.—Plumbing fixtures, etc.

**Plumbing.**—J. W. Umstadd, Bristol, Va.—Plumbing Equipment.

**Portable (Steel) Buildings.**—Warrant Warehouse Co., 1609 American Trust Bldg., Birmingham, Ala.—Second-hand portable steel sheds and shop buildings.

**Posts (Lamp), etc.**—Dist. Commrs., Room 509, Dist. Bldg., Washington, D. C.—Bids until June 19 to furnish and deliver cast iron lamp posts and accessories used by electrical dept.; further information apply to Room 320, Dist. Bldg.

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**Post Office Equipment.**—P. E. Isenhower & Son, Conover, N. C.—Post office equipment.

**Pottery.**—W. S. Hooper, Prest., Ozark Iron Ore & Mfg. Co., Poplar Bluff, Mo.—Data and correspondence for establishment of pottery for mfrs. of dishes.

**Pump.**—Judge E. C. O'Rear, Frankfort, Ky.—Information on hydraulic or electric pump. (See Water Works.)

**Radio Parts.**—J. Freeman Williams, Prest., Woodstock Mfg. Co., Center and Nassau Sts., Charleston, S. C.—Prices on radio parts for household installation; correspond with manufacturers.

**Radio Outfits.**—W. A. Wheeler, Bainbridge, Ga.—To correspond with mfrs. of radio outfits, for installation in residence.

**Rails.**—Gulf State Land & Lumber Co., Coushatta, La.—Prices on 5 mi. 12 to 20-lb. steel relay rails.

**Reduction (Fertilizer) Plant Equipment.**—Nelson Motor Fuel & Fertilizer Co., Tampa, Fla.—Data and prices on full equipped reduction plant, to mfrs. fertilizer including mch'y. used in connection with fish scrap.

**Road Binders.**—See Paving Materials.

**Road Construction.**—Abbeville County Highway Comms., J. S. Stark, Chrmn., Abbeville, S. C.—Bids until June 15 to construct 9.24 mi. top soil road from Frank Place to Calhoun Falls.

6.16 mi. top soil Island Ford road, from near Gilman's Gin to McCormick County line; clear, grub, construct culverts, headwalls, etc.; plans, etc., from H. B. Humbert, County Engr.

**Road Construction.**—Collin County, O. T. Murray, County Judge, McKinney, Tex.—Bids until June 8 to construct 10.19 mi. State Highway No. 5-A, through Farmersville Road Dist.; local rock base; gravel top; 12,258.6 cu. yds. local rock base; 13,277 cu. yds. gravel; surfacing material to be furnished by County; F. W. Cawthon, County Engr.

**Road Construction.**—Jefferson County Bd. of Revenue, Birmingham, Ala.—Bids until June 27 to construct following roads under City Improvement Ord. 206-D:

2½ mi. Norwood-Ingenook road; 26,000 sq. yds. paving.

¾ mi. South Bessemer road from Poplar St. to Elizabeth St.; 16,000 sq. yds. paving; all concrete base and bituminous top; plans, etc., from C. J. Rogers, County Highway Engr.

**Road Construction.**—Hinds County Highway Comsn., H. D. Gibbs, Chrmn., Jackson, Miss.—Bids opened June 6 to construct 3½ mi. Learned Road Dist., gravel surface; concrete headwalls of culverts; grade, etc., from Chancery Clk., Raymond, Miss., or Engr., Learned, Miss.

**Road Construction.**—Campbell County Highway Comms., Jesse L. Rogers, Chrmn., Jacksboro, Tenn.—Bids until June 16 for following roads:

No. 1, 11 mi. from Jacksboro Pike to Anderson County line.

No. 4, 2 mi. from Lindsay's bridge over Cove Creek to Anderson County line.

No. 5, 9 mi. from Red Ash to Pioneer.

No. 7, 3 mi. from McNeeley's Store to Powells River.

No. 8, 2 mi. from Flat Hollow to Claiborne County line.

No. 14, 2 mi. from D. S. Delap's to John Vinsant's.

No. 19, 3 mi. from Dick Disney's to Cove Creek.

No. 20, 1 mi. from LaFollette to Pleasant Ridge.

No. 21, 1 mi. from LaFollette to Gross' Mill.

No. 22, 1 mi. from R. H. Sharps to Cedar Creek road; all to be graded.

No. 9, 10 mi. from LaFollette to Claiborne County line; re-macadamizing and surface treating.

No. 6, complete macadamizing road from Elk Valley to Pioneer; plans, etc., from D. C. Rogers, Ch. Engr., LaFollette, Tenn.

**Road Construction.**—State Roads Comsn., 601 Garrett Bldg., Baltimore, Md.—Bids until June 13 to construct following:

Montgomery County, 5 mi. State Highway from Potomac to Conduit Road, via Leland Corner; Contract M-31.

Montgomery County, 5 mi. State Highway from Bethesda to Lelands Corner; Contract M-32; both macadam resurfacing.

Anne Arundel County, 2.88 mi. State Highway along Defence Highway from end Contract AA-12 to Chesterfield road; Contract AA-17; grade and construct drainage structures.

Charles County, 2 mi. State Highway from Mason's Springs toward Pomonkey; Contract Ch-22; gravel.

**Road Construction.**—State Road Dept., H. B. Phillips, Chrmn., Tallahassee, Fla.—Bids until June 14 to surface about 18 mi. Road No. 3, Volusia County, between Deleon Springs and Putnam County line; 168,960 sq. yds.; alternate bids on crushed stone base course, shell base course, waterbound macadam surface and bituminous macadam surface; plans, etc., on file, from Wm. F. Cocke, State Highway Engr., Tallahassee, or from Div. Engr., State Road Dept., New Smyrna, Fla.

**Road Construction.**—Mobile County Board of Revenue and Road Comms., Thos. B. Allman, Chrmn., Mobile, Ala.—Bids until July 1 to construct following:

Wistler, Clay gravel Turner road from John Craft Highway to South Railroad St. Pritchard, gravel surface Holmes St., from Rives to Pritchard Sts.

Oakdale, gravel surface Culvert St., from Gould to Anderson Sts., and Bay Ave., from Washington Ave. to Baptist Church; plans, etc., from S. L. E. Prouty, County Highway Engr.

**Road Construction.**—Henrico County Bd. of Supvrs., Richmond, Va.—Bids opened June 1 to construct 2.2 mi. Second Street road, between city limits and C. & O. R. R.; 18,000 sq. yds. waterbound macadam; plans, etc., from County Clk., 22nd and Main Sts., and State Highway Comsn., 116 S. Third St.

**Road Construction.**—State Highway Dept., Jefferson City, Mo.—Bids until June 9 to improve 10 mi. State road in Cedar County; grade and construct drainage structures; H. P. Mobberley, Div. Engr., Springfield, Mo. (Lately noted bids until June 5.)

**Road Construction.**—Collin County, O. T. Murray, County Judge, McKinney, Tex.—Bids until June 8 to construct following:

12.4 mi. State Highway No. 5-A, Blue Ridge Road District; gravel top; County to furnish surfacing material.

2.17 mi. State Highway No. 1, through county; Federal Aid Project No. 234; gravel sub-base; bituminous topping; 23,651.3 asphaltic oil; 22,589.6 lin. ft. concrete curb; alternate bids on 21,614 sq. yds. bituminous concrete surfacing; 4.84 mi. State Highway No. 5-A, Laxon Road District; limestone base and gravel top.

3.72 mi. State Highway No. 5-A, Copeville Road District; 16-ft. wide; gravel surface on rock base; County to furnish gravel and rock base.

6.57 mi. State Highway No. 5-A, Wylle District; 11,962 cu. yds. gravel base, 8526 cu. yds. gravel top; surfacing material furnished by county; F. W. Cawthon, County Engr.

**Road Construction.**—Jefferson County, J. B. Peek, County Judge, Beaumont, Tex.—Bids until June 12 to clear and grub 39.8 acres on Green Pond Gully and Gilbert roads; plans, etc., from A. C. Love, County Engr.

**Road Construction.**—Alamance County Highway Comsn., J. Ed. Moore, Chrmn., Graham, N. C.—Bids opened June 5 to construct 7¼ mi. top soil road in Thompson township; 16,000 cu. yds. top soil; Spoon & Lewis, Engrs.

**Road Construction.**—State Highway Dept., Jefferson City, Mo.—Bids until June 9 to construct following:

Bollinger County, 8.5 mi. State road from Wayne County line, to Cape Girardeau County line; gravel surface; Federal Aid Project No. 174, Section A; grade, construct drainage structures, board rail, etc.; M. S. Murray, Div. Engr., Sikeston, Mo.

Bollinger County, 10.045 mi. State road from Lutesville southeastward; gravel surface; gravel pavement; grade, construct drainage structures, guard rail, etc.; Federal Aid Project No. 174, Section B.

**Road Construction.**—State Highway Dept., Jefferson City, Mo.—Bids until June 10 for 2.579 mi. State road from Jackson County line to Pleasant Hill; grade, construct drainage structures, etc.; Cass County Federal Aid Project No. 20,110; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo.

**Road Construction.**—State Highway Dept., Jefferson City, Mo.—Bids until June 8 for 5.93 miles State road from Windsor to Leeton; grade, construct drainage structures; gravel pavement; gravel surface; Henry County, Federal Aid Project No. 132; S. M. Rudder, Div. Engr., Ilgenfritz Bldg., Sedalia, Mo.

**Road Construction.**—State Highway Dept., Jefferson City, Mo.—Bids until June 13 to construct State road from St. Joseph to Hannibal; plans, etc., on file.

**Road Construction.**—Fairfield County Highway Comsn., B. H. Yarbrough, Chrmn., Winnsboro, S. C.—Bids opened June 6 for 5 mi. Monticello road from Little River to Jenkinsville; plans, etc. from J. H. Moore, 31 Arcade Bldg., Columbia, S. C.

**Road Construction.**—Wise County Comms., Court. Road Dist. No. 2, W. D. Pachall, County Judge, Decatur, Tex.—Bids until June 12 to grade and construct concrete structures on about 20 mi. road; approximately \$100,000; L. W. Taylor, County Engr.

**Road Construction.**—State Highway Dept., Columbia, S. C.—Bids until June 14 to improve 15.625 mi. Yemassee-Fairfax road from Varnville to Yemassee; Hampton County, Federal Aid Project No. 41; 31,450 cu. yds. sand clay surfacing; plans etc., from State Highway Engr., Columbia.

**Road Forms.**—See Paving Equipment.

**Road Materials (Penetration Method).**—E. P. Lindsay, 607 Middle St., Portsmouth, Va.—Prices on tar for tar macadam for penetration methods, crushed stone; Portsmouth delivery.

**Road Oil.**—See Paving Materials.

**Road Oiling Equipment.**—Runnels County U. Stephens, County Engr., Ballinger, Tex.—Road oiling equipment.

**Road Rollers.**—Virginia Machinery & Well Co., 1319 E. Main St., Richmond, Va.—To purchase or rent 2 heavy horse drawn road rollers.

**Rollers (Road).**—E. P. Lindsay, 607 Middle St., Portsmouth, Va.—Ten-ton road rollers; correspond with dealers in used equipment.

**Roofing.**—Manly Jail Works, Dalton, Ga.—

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60 squares corrugated galvanized ingot iron roofing.

**Roofing.**—L. E. Blanchard, Appling, Ga.—To purchase galvanized metal shingles or other permanent roofing for dwellings.

**Saw Milling Outfit.**—L. E. Blanchard, Appling, Ga.—To purchase complete saw milling outfit.

**Roofing.**—See Building Materials.

**Roofing (Steel), etc.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until June 13 to furnish 4050 sheets corrugated steel roofing, 1000 lbs. roofing nails, 300 lbs. lead washers and 1000 ft. ridge roof; delivery Naval Operating Base, Hampton Roads, Va.; plans on file; Sch. 395.

**Sand Screening Outfits.**—Acme Sand Co., Eustis, Fla.—To correspond with mfrs. of sand screening outfits, to be installed in conjunction with plant for dredging sand hydraulically from lake and pumping same into cars.

**Saw Mill, etc.**—C. L. Seyler, Mgr., C. L. Seyler Lumber Co., Bluefield, W. Va.—To purchase about Sept. 1, small band mill, planer and lath mill, probably dry kiln.

**Seating.**—Young-Tucker Mfg. Co., Darlington, S. C.—To correspond with mfrs. of opera chairs and seats.

**Seating (Church).**—J. W. Umstadd, Bristol, Va.—Opera chairs for room 40x50 ft.

**Sewer Construction.**—C. F. Semeldeck, Clk., of Oklahoma City, Okla.—Bids until June 6 to construct following work: First St. Sewer Dist., Section 1 (A) Contract SA-5, precast reinforced concrete pipe, approx. 180 ft. of 18-in., 230 ft. of 78-in., 1255 ft. of 90-in. and 1050 ft. of 96-in. sewer, complete with manholes with inverted siphon, junction chambers and other structures; Section 1 (B) Contract SA-6, double strength vitrified or plain cement concrete pipe, approx. 60 ft. of 18-in., 1600 ft. of 21-in. and 650 ft. of 27-in. diam. sewer, together with necessary manholes, improved catch basins, catch basin leads, etc.; Section 1 (C) Contract SA-7, double strength vitrified or plain cement concrete pipe, approx. 1160 ft. of 21-in. and 40 ft. of 21-in. and 40-ft. of 27-in. diameter sewer together with necessary manholes, improved catch basins, leads, etc.; bids will be considered on each section separately.

**Sewer Construction.**—City of Paducah, Ky., Henry A. Pulliam, Comms. of Public Works and City Engr.—Bids until June 10 to construct sewers, Contract No. 1, about 14,438 ft. of 42-in. to 102-in. sewers and Contract No. 2, about 22,300 ft. of 15-in. to 36-in. sewers.

**Sewer Construction.**—City of Palacios, Tex., P. F. Campbell, Mayor.—Bids until June 6 to construct sanitary sewer system and disposal plant, approx. 2000 ft. of 6-in. pipe; 12,000 ft. of 8-in. pipe; 2000 ft. of 10-in. pipe; 1000 ft. of 12-in. pipe; 200 ft. of 15-in. pipe; 24 manholes; 6 flush tanks and disposal plants complete; plans at office of Mayor or at office of Hess & Skinner, Dallas, Tex., Engrs.

**Sewer Construction.**—Town of Marion, S. C., G. G. McKerrall, Mayor.—Bids until June 20 for 11,000 lin. ft. sanitary sewer; 800 lin. ft. storm sewer; plans on file at office of Johnson & Roberts, Marion, S. C., Engrs.

**Stationery.**—George A. Sanderson, Secy., U. S. Senate, Washington, D. C.—Bids until June 13 to furnish stationery for U. S. Senate, for year ending June 30, 1923; information on application.

**Sewer Construction.**—Washington Suburban Sanitary Comsn., Evans Bldg., New York Ave., Washington, D. C.—Bids until June 21 to furnish and lay following: 17-S, 20,000 ft. of 6-20-in. sewers; 31-S, 15,000 ft. 6-20-in. sewers; plans from Robt. B.

Moore, Chief Engr. of District, Hyattsville, Md.

**Sewer Construction.**—City of Winter Haven, Fla., A. Summerlin, Mayor. Bids until July 6 to construct sanitary sewer; approx. 12 mi. of pipe sewers from 8-15-in. in diam. and 3 disposal plants; plans and specifications on file at office of M. I. Hinderliter, Clk., and H. S. Jaudon Engineering Co., Elberton, Ga., Engrs.

**Sewer Construction.**—City of Brewton, Ala., D. B. Hayes, Mayor.—Bids until June 23 to construct sanitary sewerage system; furnishing all labor and materials to construct approx. 23,000 lin. ft. of 8-10-12-in. sewers; plans and specifications on file at office of Wiley Colouitt, Clk., and J. B. McCrary Engrg. Corp., Atlanta, Ga., Engrs.

**Sewer Construction.**—City, Wm. F. Broening, Prest., Board of Awards, Baltimore, Md.—Bids until June 7 to construct sewers and drains in Sewer Districts. 34-E and G-11, Storm Water Contract No. 52, approximate extent of work as follows: 193 lin. ft. of 18-in., 600 lin. ft. 12-in., 261 lin. ft. 10-in., 100 lin. ft. 8-in. vitrified pipe sewer; 2422 cu. yds. excavation for masonry sewers; 686 cu. yds. concrete masonry; 109 cu. yds. masonry; 841 lin. ft. hauling and laying reinforced concrete pipe; 13 manholes; plans and specifications on file at office of A. E. Christliff, Highways Engr., Room 8, City Hall.

**Sewer Construction.**—City of El Paso, Tex., A. H. Johnson, Pur. Agt.—Bids until June 8 to construct sewage disposal plant; plans and specifications on file at office of City Pur. Agt. and office of Harry O. Duerr, 906 Mills Bldg., Const. Engr.

**Sewer Construction.**—City of Clarksburg, W. Va., D. H. Hamrick, Clk.—Bids until June 19 to construct approx. 3300 lin. ft. vitrified sewer pipe, in sizes from 6 to 20-in. with 50 Y's, 6 manholes and 8 inlets; plans on file at office of City Engr. or City Mgr.

**Sewer Construction.**—City of Houston, Texas, O. F. Holcombe, Mayor.—Bids until June 5 to construct sewer in Alley between Yale St. and Heights Blvd. from Center St. to Washington Ave.; on Vida St. from Washington Ave. to Williams St.; plans and specifications on file at office of City Engr.

**Sewer Construction.**—City of Van Alstyne, Tex., O. B. Cotton, City Secy.—Bids until June 10 to construct sanitary sewer system and disposal plant; approx. 27,600 ft., 6-in. vitrified sewer pipe; 270 6x4 Y's; 7500 ft. 8-in. vitrified sewer pipe, 75 8x4 Y's; 42 manholes; 350 cu. yds. rock excavation; 100 cu. yds. earth excavation; 1 automatic flush tank; disposal plant complete; plans and specifications on file at office of Elrod Engineering Co., 3206 Elm St., Dallas, Texas, Const. Engrs.

**Steel Sash.**—Roy G. Pratt, 323 N. Charles St., Baltimore, Md.—Steel Sash.

**Spoons (Aluminum), etc.**—R. P. Cook, 201 Frederick St., Bluefield, W. Va.—To correspond with mfrs. of or dealers in aluminum spoons, forks, etc.

**Stone Crusher.**—J. A. Ellison, Mgr., Shawner Construction Co., Lansing, W. Va.—Prices on stone crusher.

**Stove Materials (Oil-Gas).**—Chas. V. Stuart, Prest., Mgr., Radio-Oil-Gas Stove Co., Box 2540, Oklahoma City, Okla.—Prices on hollow wire connections, tanks, small iron castings, pressure gauges, fire tiles, glowers or clinkers for radiant fire stoves, fire tiles, refractory back for stove, and thermostatic controls for liquid fuel.

**Sunday School Equipment.**—J. W. Umstadd, Bristol, Va.—Sunday school equipment.

**Switchboard.**—Guyan Machine Shops, Lo-

gan, W. Va.—Switchboard for 75 K. W., 250 volt generator.

**Scroll Saw.**—Guyan Machine Shops, Logan W. Va.—Power-driven scroll saw.

**Tanks (Fuel Oil), etc.**—Board of Permanent Seat of Government, Jefferson City, Mo.—Bids until June 10 to install complete oil burning equipment and fuel oil storage tanks for five 250 H. P. Heine boilers; also install reinforced concrete twin ash and cinder hoppers at State Capitol power house; further information apply to C. J. Rundberg, Room 100, State Capitol Bldg.

**Tin Foil.**—R. P. Cook, 201 Frederick St., Bluefield, W. Va.—To correspond with mfrs. of tin foil, same as used in wrapping candy, etc.

**Transformer.**—Pennsylvania Equipment Co., Machinery Dealers, Norwood, Pa.—Second-hand G. E. 1500 K. V. A. Transformer, suitable to operate on 13,000 volts, 3 phase, 60 cycle; water cooled.

**Transmission Equipment.**—Super Electric Co., 222 E. Main St., Norman, Okla.—Counter shafting, pulleys, etc.

**Vending Machines.**—W. H. Kler, Corinth, Miss.—To correspond with mfrs. of or dealers in peanut and chewing gum vending machines.

**Ventilators (Galvanized Iron).**—Manly Jail Works, Dalton, Ga.—Four 30-in. galvanized iron ventilators.

**Wagon Loaders.**—See Paving Equipment.

**Water Works.**—Judge Edw. C. O'Rear, Frankfort, Ky.—Information on hydro-electric plant and pumping system, private supply; hydraulic or electric pump.

**Water Works.**—City of Hendersonville, N. C., C. E. Brooks, Chrmn., Board of Water Comms.—Bids until June 22 (postponed from June 15) for following water works improvements:

Masonry and concrete intake dam, earth and concrete distributing reservoir, 15 mi. of 16-in. water pipe, for which bids will be considered on cast iron bell and spigot pipe, universal pipe, continuous wood stave pipe, steel pipe, reinforced concrete pipe and cement lined pipe for entire line or portions, constructing 15 mi. of 16-in. pipe line, gate valves, air valves and venturi meters; plans and specifications on file at office of Gilbert C. White Co., Durham, N. C., Engrs., and City Hall.

**Water Works.**—City of Houston, Texas, O. F. Holcombe, Mayor.—Bids until June 5 to construct water main on McGowen Ave. from Sampson St. to Canfield St., on Canfield St. from McGowen to Dennis, on Dennis from Canfield to Scott St.; plans on file at office of City Engr.

**Waterworks Equipment.**—J. A. Harper, City Secy., Corsicana, Tex.—Bids opened June 6 for two 700 to 750 G. P. M. electric motor or oil-engine driven centrifugal pumping units complete, 250 ft. head; one 500 G. P. M. electrical motor or oil-driven centrifugal pumping unit complete, 230 ft. head; 200,000 gal. elevated tank, height of frame 100 ft. to balcony; plans with J. W. Harrison, City Engr.

**Water Works Materials.**—Dist. Comms., Room 509, Dist. Bldg., Washington, D. C.—Bids until June 13 to furnish corporation and curb cocks, brass gate valves used by water dept.; further information apply to Room 320, Dist. Bldg.

**Woodworking Equipment.**—C. L. Seyler, Mgr., C. L. Seyler Lumber Co., Bluefield, W. Va.—To purchase about Sept. 1, hardwood flooring equipment.

**Woodworking Machinery.**—International Lumber & Shook Co., 318 Forrest Bldg.,

Philadelphia, Pa.—Mchy. for mfre. of box shooks.

**Wrenches (Socket).**—W. J. Burnett, Thom-  
asville, Ga.—500 socket wrenches, one end  
for 3/8-in. bolt, other end for 1/2-in. sq. nuts;  
about 8-in. long.

## Financial News

### New Financial Corporations.

Ala., Birmingham—Blackburn-Leonard In-  
dustrial, Finance & Discount Co., \$10,000  
capital, inceptd. with W. R. Blackburn,  
Pres.; W. F. Leonard, Treas.

Ala., Gadsden—Gadsden Loan & Savings  
Bank, 111 Fifth St., South, \$50,000 capital,  
organized by Dr. J. W. Morgan, G. B. Hale,  
Chattanooga, Tenn., and others.

D. C., Washington—Tax Recovery Corp.,  
7th and Srs., \$190,000 capital, inceptd. with  
Wm. L. Chambers, Pres.; Ernest V. Moore,  
V.P.; Henry Kirk White, Secy.-Treas. (Late-  
ly noted.)

Fla., Jacksonville—Title & Trust Co. of  
Florida, \$250,000 capital, inceptd. with Chas.  
H. Mann, Pres.; T. W. Dunk, V. -P.

Fla., Miami—Commercial Mortgage Co.,  
\$50,000 capital, inceptd. with I. E. Shilling,  
Pres. and Treas.; M. E. Shilling, V.-P.

Fla., Miami—Continental Finance Co., cap-  
ital \$100,000, organized.

Fla., Orlando—First Bond & Mortgage  
Co., capital \$100,000, organized.

Fla., Ocoee—Marshall Investment Co., \$50-  
000 capital, inceptd. with J. I. Marshall, Pres.;  
W. T. Tilden, Secy.-Treas.

Fla., Plant City—Farmers & Merchants  
Bank of Plant City, capital \$100,000, inceptd.  
with W. A. Haymond, Pres.; Geo. H. Wil-  
der, Vice-President.

Fla., West Palm Beach—Palm Beach Guar-  
anty Co., capital \$500,000, organized.

Ga., Marietta—M. L. McNeel, Jas. T. An-  
derson, D. W. Blair and others organizing  
national bank with \$100,000 capital.

Md., Baltimore—Independent Mutual Bldg.  
Assn., Inc., 210 E. Lexington St., \$500,000  
capital, inceptd. by M. Raymond Roberts,  
Merle D. Rusk and Chas. M. Balder.

Md., Baltimore—A. E. Morgan & Co., Inc.,  
Maryland Casualty Tower Bldg., inceptd. by  
Joseph Brennan, Arthur D. Thompson and  
John E. Stone.

Md., Chestertown—Citizens' Bank of Ches-  
tertown, capital \$35,000, inceptd. by Hope H.  
Barroll, Geo. D. Lofland and others.

Mo., Kansas City—Colonial State Bank,  
16th St. and Grand Ave., consolidated with  
Southwest Boulevard State Bank, 1822 Main  
St.

Mo., St. Louis—E. J. Manion applied for  
charter for Telegraphers' National Bank;  
\$500,000.

Mo., Shelbina—Shelbina Building & Loan  
Assn., capital \$50,000, organized with Thos.  
J. Rice, Pres.; W. L. Shouse, Secy.; G. W.  
Townsend, Treas.

N. C., Raleigh—Atlantic Joint Land Bank,  
capital \$500,000, organized with A. Wilton  
McLean, Pres.

Okl., Britton—First National Bank; suc-  
ceeds North Oklahoma State Bank; capital  
\$25,000; correspondent, R. M. Whistler.

Okl., Hollis—Farmers National Bank;  
conversion Farmers State Bank of Hollis;

capital \$25,000; correspondent, Verne Hos-  
tutler.

Okl., Loco—First National Bank; con-  
version State Bank of Loco; capital \$25,000;  
correspondent, Percy W. Newton.

Okl., Snyder—Kiowa National Bank; suc-  
ceeds Kiowa State Bank; capital \$25,000;  
correspondent, A. F. Kee.

S. C., Charleston—Wage Earners' Bldg. &  
Loan Assn., capital \$20,000, inceptd. with J.  
W. Gallman, Pres.; C. Smalls, Treas.

S. C., Cheraw—Cottage Building & Loan  
Assn., capital \$50,000 inceptd. with J. O.  
Raley, Pres.; W. E. Duvall, V. -P.

Tenn., Knoxville—Mechanics Bank & Trust  
Co., S. B. Luttrell, Pres., merged with Union  
National Bank, H. M. Johnston, Pres.;  
\$1,000,000 capital.

Tenn., Paris—Commercial bank of Paris  
merged the Bank of Henry.

Tex., Brownsville—State National Bank,  
conversion State Bank & Trust Co.; capital  
\$100,000; correspondent State Bank & Trust  
Company.

Va., Clarksburg—Citizens' Bank of Clarks-  
ville, \$100,000 capital, organized with Chas.  
G. Royster, Pres., Bullock, N. C.; Fletcher  
A. Burton, Vice-Prest., Clarksville.

Va., Emporia—Citizens National Bank;  
conversion of Citizens Bank; capital \$180-  
000; correspondent W. T. Harding, Cashier,  
Citizens Bank of Emporia.

W. Va., Sistersville—Union National Bank,  
capital \$175,000; merged Farmers & Pro-  
ducers National Bank, John P. Flynn, Pres.,  
and Peoples National Bank, Geo. W. Hill,  
Prest.

### New Securities.

Ala., Gadsden—School—Marx & Co., Birm-  
ingham, Ala., purchased \$250,000 6% 30-yr.  
bonds; \$500 denomination; semi-annual.

Ala., Montgomery—Road—State, Thos. E.  
Kilby, Gov., sold \$1,000,000 bonds to Ward,  
Sterns & Co., Birmingham, and gave the com-  
pany an option on \$2,000,000 additional  
bonds.

Ala., Tuscaloosa—Hospital—Board of City  
Comms., D. B. Robertson, Pres., sold  
\$50,000 5 per cent bonds to Sydney Spitzer  
& Co., Toledo, O., for 4756 and accrued  
interest; \$1000 denomination; dated Apr. 1,  
1922; mature Apr. 1, 1952. (Lately noted.)

Fla., Fort Lauderdale—Highway and Navigation  
—Broward County Comms., Frank A.  
Bryan, Clk., receives bids until June 20 for  
\$400,000 highway and \$100,000 navigation  
6% bonds.

Fla., Gainesville—Paving, Light and Water  
—City, Board of Public Works, receives bids  
June 28 on \$125,000 6% paving and \$30,000  
6% light and water plant bonds; Drayton  
Avera, Secy.

Fla., Homestead—Electric, Water, Paving,  
Fire Dept.—City, S. E. Livingston, vote July  
5 on \$115,000 bonds.

Fla., Plant City—Improvement—City, W.  
H. Durrance, Clk., voted \$150,000 bonds for  
indebtedness, city hall, fire station, fire-  
fighting equipment, sewer and water. (Late-  
ly noted.)

Fla., Quay—Bridge—Town voted \$35,000  
bonds. Address The Mayor.

Fla., St. Augustine—Road — St. John's  
County will vote on bonds. Address County  
Comms.

Fla., Tavares—School—Lake County Board  
of Public Instruction, W. C. Jones, Chrmn.,

sold \$38,000 bonds to Prudden & Co., Toledo,  
O., for \$40,006.40.

Fla., West Palm Beach—Bridge—Palm  
Beach County, Hector Harris, Chrmn., votes  
June 20 on \$100,000 bonds.

Ga., Butler—School—City voted \$20,000  
bonds. Address The Mayor.

Ga., Rochelle—School—Board of Trustees  
of Consolidated Schools, R. O. Helton,  
Chrmn., called election for July 5 on \$60,000  
bonds.

Ky., Louisville—Louisville Joint Stock  
Land Bank, sold \$3,000,000 5% bonds, due  
May 1, 1952, to syndicate including Halsey,  
Stuart & Co., Wm. R. Compton Co., Fidelity  
& Columbia Trust Co., and Henning, Cham-  
bers & Co.

Ky., Madisonville—School Board of Educa-  
tion, D. Utley, Pres., sold \$53,000 6 per cent  
bonds to Tillotson & Co., Cleveland, O., at  
1.0632; \$1000 denomination; 20 year; dated  
May 1, 1922. (Lately noted.)

La., Gibsland—School—Gibsland School  
Dist. No. 2, sold \$40,000 6% bonds to Whit-  
ney Central Trust Co., New Orleans, at  
\$679 premium.

La., Keatchie—School—School Dist. Trust-  
tees sold \$8000 6% bonds to American Na-  
tional Bank at par and accrued interest.

La., Logansport—School — School Dist.  
Trustees sold \$100,000 6% bonds to M. W.  
Elkins & Co., Little Rock, Ark., at 100.05.

Mo., Carrollton—Drainage—J. H. Franken,  
Secy. of Egypt-Prairie Drainage Dist., Nor-  
thorne, receives bids for \$55,000 to \$65,000  
bonds.

Md., Centerville—School—Queen Anne's  
County Comms., C. Edgar Smith, Clk., re-  
ceive bids until June 13 for \$33,000 5%  
bonds.

Md., Centerville—Road—Queen Anne's  
County Comms., C. Edgar Smith, Clk., will  
receive bids until June 20 on \$26,000 4 1/2%  
bonds; \$1000 denomination, semi-annual.

Md., Denton—Road—Caroline County Com-  
mrs., Walter S. Rutter, Clk., sold \$30,000  
bonds to Poe & Davies, Baltimore. (Lately  
noted.)

Md., Frederick—Road—Frederick County  
Comms. will receive bids until June 15 on  
\$62,000 lateral road bonds.

Md., Salisbury—School—Wicomico County  
Comms., sold \$30,000 bonds to Nelson, Cook  
& Co., Townsend Scott & Son and Baker,  
Watts & Co., all Baltimore.

Md., Towson—Sewer—Baltimore County,  
John R. Haut, Clk., sold \$150,000 4 1/2%  
17 1/2-year bonds to Redmond & Co., Balti-  
more, at 104.0567. (Lately noted.)

Miss., Meridian—School—City plans voting  
on \$25,000 bonds. Address The Mayor.

Miss., Rawls Springs—School—Forrest  
County School Dist., D. L. Easterling, F.  
M. Hunt and L. C. Bradley, Election Com-  
mrs., votes June 6 on 5% bonds; \$1000  
denomination.

Mo., Benton—School—Benton School Dist.  
No. 19 sold \$10,000 5% bonds to Sutherland  
Securities Co.; \$500 denomination. Address  
School Trustees.

Mo., Kansas City—School—City sold \$1-  
000,000 5% bonds to Presscot & Snider at  
\$92.135 premium; due 1941. Address The  
Mayor.

Mo., Marshall—School—Board of Education  
sold \$199,000 bonds to Lewis W. Thompson  
& Co., St. Louis, at \$7263.50 premium.

Mo., Marshall—Street—Salina County votes  
June 2 on \$300,000 bonds. Address County  
Comms.

Mo., Monett—School—City voted \$75,000  
bonds. Address The Mayor.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Mo., St. Charles—School—City votes June 17 on \$200,000 bonds. Address The Mayor.

Mo., St. Clair—School—City voted \$17,000 bonds. Address The Mayor.

Mo., Seymour—School—City sold \$22,000 6% bonds to W. R. Compton Bond Co., St. Louis, at \$3.13 premium.

Mo., Oxy—School—School Dist. voted bonds. Address School Trustees.

Mo., Union—Courthouse and Jail—Franklin County Comms. sold \$150,000 bonds to Bank of Union at \$104.83.

N. C., Burlington—Improvement and Funding—City, M. W. McPherson, Treas., sold \$80,000 improvement and \$20,000 funding bonds to Richards, Parish & Lamson, Cleveland, at \$2.776 premium. (Lately noted.)

N. C., Franklin—Improvements—Board of Aldermen, H. W. Cabe, Clk., receives bids until June 5 for \$10,000 6% bonds; \$1000 denomination.

N. C., Highlands—Street—Town, A. T. Fox, Clk., receives bids until June 5 for \$25,000 6% bonds.

N. C., Kernersville—Water and Sewer—City voted \$105,000 bonds. Address The Mayor.

N. C., Kings Mountain—Improvement—Town, Geo. E. Lovell, Clk., sold \$36,000 6% bonds to Sidney Spitzer & Co., Toledo, at \$102.83. (Lately noted.)

N. C., Mount Holly—City Hall and Street Improvement—City sold to Central Bank & Trust Co., \$20,000 6% bonds, \$500 denomination; at par and accrued interest; \$15,000 for street; \$5000 city hall. (Lately noted.)

N. C., Winston-Salem—Street, Water, School, Fire Dept., etc.—City, W. H. Holcombe, Secy., sold \$2,051,000 bonds to Claiborne-Royal & Co., Goldsboro, representatives of Bankers' Trust Co., New York, at \$5750 premium. (Lately noted.)

Okla., Hobart—School—School Dist. Trustees sold \$84,000 5% bonds to S. E. Hennold, Oklahoma City, at \$186 premium.

S. C., Camden—Street—City, H. G. Garrison, Jr., Mayor, votes June 13 on \$100,000 5% 40-year bonds; \$1000 denomination; dated July 1, 1922. (Lately noted.)

S. C., Charleston—School—Board of Public School Comms., A. B. Rhett, Clk., sold \$200,000 5% 25-year bonds to Stacey & Braun at \$209.327; \$1000 denomination; dated July 1, 1922. (Lately noted.)

S. C., Columbia—School—City voted \$75,000 bonds. Address The Mayor.

S. C., Pickins—School—City voted \$12,000 bonds. Address The Mayor.

S. C., Wellford—School—School Dist. voted \$15,000 6% 20-year bonds; \$1000 denomination; dated July 1, 1922. Address School Trustees. (Lately noted.)

Tenn., Alamo—Street—City sold \$15,000 bonds to I. B. Tigrett & Co., Jackson, at par and \$25 premium. Address The Mayor.

Tenn., Knoxville—Street—City, E. W. Neal, Mayor, receives bids until June 6 for \$30,000 6% bonds.

Tenn., Nashville—Water and Sewer—City, S. H. McKay, Clk., sold \$500,000 sewer bonds to Tigrett & Co., Jackson; and Harriman & Co., New York, for \$547,000; and \$240,000 water works bonds to American National Securities Co., and Caldwell & Co., Nashville, for \$263,383. (Lately noted.)

Tenn., Nashville—Chattanooga Railway & Light Co. will issue \$682,000 bonds.

Tenn., Nashville—Street—Davidson County Comms., vote June 22 on \$375,000 bonds; S. H. McKay, City Clerk.

Tenn., Nashville—Tennessee Power Co. will issue \$701,000 bonds.

Tenn., Tullahoma—School—City, B. H. Wilkins, Mayor, sold \$60,000 5% bonds to American National Securities Co. (Lately noted.)

Tex., Anson—Waterworks—City receives bids until June 8 for \$80,000 6 per cent bonds. Address City Secy.

Tex., Boston—Bridge—Bowie County Comms. Court, vote June 24 on \$65,000 bonds.

Tex., Beaumont—Road—Attorney General, Austin, approved \$2,000,000 5% serial bonds of Road Dist No. 1. Address Jefferson County Comms.

Tex., Brownsville—Road—Cameron County Comms. Court, vote June 24 on \$350,000 bonds; Oscar C. Dancy, County Judge; W. O. Washington, County Engr.

Tex., Pickwick—Bridge—Palo Pinto County contemplates issuing bonds; E. L. Pitts, County Judge; G. W. Courter, County Engr.; both Palo Pinto.

Tex., Burkburnett—School—Secy., Board of Education, receives bids until June 6 for \$150,000 5½% bonds. (Lately noted.)

Tex., Clarksville—Levee—Red River County Comms. called election for Dist. No. 3 on \$40,000 bonds for June 17 and for Dist. No. 6 on \$20,000 bonds for June 19.

Tex., Franklin—Road—Attorney General, Austin, approved \$150,000 bond issue of Robertson County Road Dist. No. 7. Address County Comms. (Lately noted.)

Tex., Georgetown—Paving—City voted \$85,000 bonds. Address The Mayor.

Tex., Georgetown—School—Trustees of Independent School Dist. called election for June 20 on \$100,000 bonds.

Tex., Lampasas—School—School Dist. votes June 6 on \$40,000 bonds. Address School Trustees.

Tex., Marlin—Road—Falls County, E. M. Dodson, Judge, voted \$100,000 5½ per cent serial bonds.

Tex., Lufkin—School—Lufkin Independent School Dist., Dr. J. C. Van Nuys, Secy., sold \$100,000 6% bonds to C. W. McNear & Co., Chicago, at par, accrued interest and \$8977 premium; \$500 denomination; mature 1 to 40 years. (Lately noted.)

Tex., Onson—Road—Jones County Comms. Court vote June 24 on \$400,000 bonds for road construction in Stamford, Avoca and Lueders. Address E. S. Cummings, County Judge, Anson, Tex., or Homer D. Wade, Secy., Chamber of Commerce, Stamford, Tex.

Tex., Orange—School—West Orange School Dist., C. O. Brown, Supt., will vote on \$8000 bonds.

Tex., West—School—Attorney General, Austin, approved \$55,000 5% bonds. Address The Mayor.

Va., Abington—Road and Bridges—Washington County, Walter H. Robertson, W. J. Johnson and F. B. Hutton, Comm., receives bids until June 10 for \$122,000 bonds.

Va., Rockymount—Road—Franklin County Suprs. plans issuing \$50,000 bonds.

## Financial Notes.

Tenn., Knoxville—Union National Bank, W. O. Whittle, Cashier, is considering increasing capital from \$400,000 to \$500,000.

Tenn., Knoxville—Union National Bank plans increasing capital from \$400,000 to \$700,000.

## Trade Literature.

### A New Road Drag

Bulletin K. C. T. of the Good Roads Machinery Co., Inc., Kennett Square, Pa., illustrates and describes their line of road drags. Especially interesting as a recent development are the pictures and reading matter concerning the Winner special two-way road drag, which is a new device that it is believed will be of particular interest to officials having in charge the maintenance of dirt and gravel roads.

### Handbook On Welding Development.

The Page Steel & Wire Co., Monessen, Pa., have just issued a new handbook describing and illustrating interesting developments in the welding field of industrial work. In it will be found a number of points not mentioned in some other publications of this kind. There is also much valuable information concerning the Page-Armco welding rods and electrodes for oxy-acetylene and electric welding.

### Maximum Efficiency in Use.

Concerning their folder recently issued relative to the S-E Koehring paver, the Koehring Company, Milwaukee, Wis., referring to an item which appeared on page 99 of the MANUFACTURERS RECORD of May 25, state that the one hour and fifty seven minutes mentioned in the folder was the total length of time lost from mixer operation due to mixer breakdown in three long seasons' operations and was not the time taken to finish a particular road job. This machine, it is noted, "is designed and built in all its parts for durability and maximum efficiency."

## Book Review

Wills, Estates and Trusts. By Thomas Conyngton, Harold C. Knapp and Paul W. Pinkerton. New York: The Ronald Press Company, 1921. Two volumes. \$8.

In this work will be found a clear outline of steps that are required to be taken when it is necessary to settle an estate whether there is or is not a will. It describes accurately the procedure which should be followed in handling property left in trust for children or other members of a family. There is also a description of such advantages as are offered by banks or trust companies for the settlement of estates and for handling trusts. General forms and rules relating to these matters are given and there is, furthermore, full information as to the payment of inheritance taxes, income and property taxes, state and federal taxes, taxes due and coming due, all of which make the settlement of an estate unduly complex. It will be found that these two books constitute a practical guide for anyone making a will or appointing a trustee as well as serving for executors or trustees, and the counsel contained therein is of service in relation to small estates as well as to large ones. The men whose names appear on the title pages are of recognized authority, Mr. Conyngton being a member of the New York bar, Mr. Knapp being associated with the trust division of an important national bank and Mr. Pinkerton being a certified accountant.

### New Offices Opened.

The J. F. Morgan Paving Co. have opened offices at 514 Graham Bldg., Jacksonville, Fla. In addition to this establishment they have offices at 905-906 Woodward Bldg., Birmingham, Ala., and 403 Burdine Bldg., Miami, Fla.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.



## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers or subscribers or not. We invite information of this character from readers in the North and West about their southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

### Removal of New York City Office.

The Simmons Machine Co., Inc., of Albany, N. Y., have removed their New York City office from 801 Singer Building, to their new office and warehouse at 182 Lafayette St.

### Business Removal.

The Service Equipment Co., handling contractors' and builders' equipment, have announced their removal from the Bourse Building, Philadelphia, to 211 N. Third St., in the same city.

### Business Removal.

The John L. Taylor Co., handling machinery, power and contractors' equipment, iron and woodworking machinery, are now located at 211 North Third St., Philadelphia, Pa., having recently removed from their old place in the Bulletin Building of that city.

### Representative Appointed.

O. Olson, of Jacksonville, Fla., is now representing the Newman Manufacturing Co., of Cincinnati, O., in the northern half of Florida and also in Georgia, south of Columbus, Ga. He will also continue to represent other manufacturers of building materials and will retain his office in the Baldwin Building.

### Large Sale of Chemical Equipment.

The Consolidated Products Co., Inc., dealers in machinery, 15 Park Row, N. Y., were, it is stated, the largest purchasers of equipment at the Government auction sale at Nitro, W. Va., during the week of May 22, their purchases aggregating about \$100,000 giving them a large stock of chemical equipment. The total of the sale was over \$500,000.

### Important Reorganization and Expansion.

The Cleveland Tractor Co., Cleveland, O., makers of the "Cietrac" tractors and the cultivators of the same name, will be reorganized as the Allyne-Zeder Motors Co. to manufacture and sell a new six cylinder automobile which is being designed by F. M. Zeder, formerly chief engineer of the Willys-Corporation and the Studebaker Corporation. New capital approximating \$5,000,000 will be added to the Cleveland Tractor Co. making a corporation with a capital of \$10,000,000 of preferred stock and 200,000 shares of common stock without par value. A new corporation, subsidiary to the Allyne-Zeder Motors Co., will be organized under the name of the Cleveland Tractor Co. and will continue to sell Cietracs through the present distributors and dealers. A new one-ton truck will be added to this line very soon. The Allyne-Zeder Co. will bring back to the automotive industry Clement Studebaker, Jr., and his brother, Col. George M. Studebaker, both formerly directors of the Studebaker Corporation, the first named being president of the Citizens National Bank of South Bend, Ind., in which both are interested. Clement Studebaker will be chairman of the new company and G. M. Studebaker vice president. Rollin H. White will be president; he is now president of the Cleveland Tractor Co. F. M. Zeder will be vice president and chief engineer. Other officers are now on the official staff of the Cleveland Tractor Co., or have been with either the Willys, Studebaker or Packard companies. Capacity of the plant will be 50 automobiles and 50 tractors per day. An expenditure of about \$1,250,000 will provide increased space required.

### Some New Electrical Instruments.

To satisfy a demand for high grade small indicating instruments, the Westinghouse Electric Manufacturing Co., East Pittsburgh, Pa., has developed and is now producing a new type known as "CX" ammeters and voltmeters, this completing the new line of direct current instruments made by this company. The "CX" instruments are especially suitable for use on switchboard panels for radio communication sets and farm lighting, and other small charging and lighting panels as well as for marine, dental, telephone and telegraph panels. They are also furnished for use with a magneto to indicate speed and with search coils to indicate temperature.

### Extensive Financing of Buildings.

G. L. Miller & Co., Inc., Hurt Bldg., Atlanta, Ga., referring to construction news of the South as published in the MANUFACTURERS RECORD, say "Taking your figures in your issue of May 25 on construction immediately adjacent to Atlanta, we find that out of a matter of \$3,300,000 worth of construction in our field, we are financing \$1,100,000 worth or exactly one-third. During the first four months of this year Miller bonds have financed over \$2,000,000 worth of building in the city of Miami, Fla., alone. This does not mean that we are concentrating our loans in one territory, since we are steadily expanding and hope soon to begin the financing of buildings as far west as Texas."

### Additional Plant Acquired.

The Mengel Company, of Louisville, Ky., has acquired at New Orleans, La., complete facilities for handling logs and for manufacturing lumber, this new plant being directly on the Mississippi River at Henry Clay Ave. and Tchoupitoulas St. Hereafter, the company will import through New Orleans its entire production of mahogany and cedar logs, with the usual exceptions of cargo lots shipped directly from the tropics to buyers or to markets. They will store mahogany or cedar logs at New Orleans to be shipped from there to foreign and domestic purchasers. Beginning June 1, mahogany lumber will be manufactured exclusively at New Orleans and shipments from there will begin as soon as previously sawn stocks at Pensacola and Mobile have been exhausted. Mahogany veneers will continue to be made at Louisville and shipped from there. The New Orleans address is P. O. Box 14.

### Big Year for Westinghouse Electric.

Notwithstanding the extremely adverse conditions of the past year the sales of the Westinghouse Electric & Manufacturing Co. amounted to almost exactly \$100,000,000 during the year ended March 31, 1922, according to the annual report. The excellent cash position of the company is shown by the statement that its current assets total \$41,700,000, while its current liabilities are only \$11,400,000. In addition the company possesses an inventory of \$55,000,000. Although costs of manufacturing and sales totaled considerably more than \$93,000,000 for the year, there was a net manufacturing profit of more than \$6,260,000 and other income added made up a gross income of over \$8,900,000. Deducting interest on bonds and notes there was a net income available for dividends, etc., of more than \$5,800,000.

### Now in Larger Quarters.

The Baltimore Belting Company on June 1 removed their plant and offices from their old location on Lombard St. to larger quarters at 23-25 South Gay St., Baltimore, Md., where they will now have greater space and improved facilities for manufacturing their high grade leather belting. The building extends through to 14-16 South Frederick St.

### Cresosoting Company Organized.

A recent announcement states that the cresosoting department of the Southern Paving Construction Co., Pensacola, Fla., has been incorporated and is now the Pensacola Cresosoting Co., which has recently completed a number of improvements and additions to the plant. T. H. Lasley is Pres.; J. N. Dicks, Vice Pres.; C. H. Sexton, Vice Pres. & Gen. Mgr.; S. M. Postlethwaite, Secy.; Jno. R. Jones, Treas.; H. W. Sullivan, Gen. Supt.

### Copper-smithing Business Acquired.

The Buffalo Foundry & Machine Co., Buffalo, N. Y., have recently acquired the copper-smithing business formerly conducted by the W. A. Case & Son Mfg. Co., of that city, including the copper shop equipment used by them. This places the purchasing company in a position to furnish all kinds of copper work including distilling apparatus, evaporators, kettles, vacuum pans, coils, etc., and to do general coppersmithing as well as repairs. The new department, it is noted, fits right in with the other lines of work done by this company.

### Two Motor Plants to Be Sold.

The real estate and equipment of the two plants of the Allen Motor Co., at Columbus and Bucyrus, O., respectively, are to be sold at auction on June 27, 28, 29 and 30 on the premises, the sale beginning at Columbus on June 27 and at Bucyrus on June 29. Full particulars will be found in the formal announcement elsewhere in this issue; the lists of stock material and equipment are extensive. Samuel T. Freeman & Co., auctioneers, 1519-21 Chestnut St., Philadelphia, Pa., who will conduct the sale, will send descriptive and illustrated catalogs on request.

### Sale of Two Textile Plants.

B. B. & R. Knight, Inc., having decided to concentrate all their cotton textile manufacturing within fewer plants, will sell at auction on June 27 and 28, respectively, their Readville Mill and water power privilege on Mother Brook at Hyde Park, Mass., as one lot, and the Manchaug Mills, with water-power privileges (three) on Mumford River at Manchaug, Mass., as one lot. Further particulars will be found in the formal announcement elsewhere in this issue. J. E. Conant & Co., auctioneers, of Lowell, Mass., who will conduct the sale will furnish complete catalogs on request.

### Moderate Cost Homes Pictured.

A new plan-book album in two handsomely bound volumes, entitled "Modern Homes" is an unusually attractive feature just added by the Southern Pine Association to its array of "dealers' helps." The albums contain photographs of 50 types of attractive small homes already built, these pictures being mounted on linen and bound into beautiful portfolios of convenient size, 25 homes being illustrated in each volume. Accompanying each photograph is a reproduction of the floor plan. These books are designed especially for the use of dealers in their home-building service departments. Only homes that can be built at moderate cost are shown. Blueprint plans and general specifications are furnished the dealers or their customers at a nominal cost.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.



## Two years' trial proves Caterpillar superiority

After trying Caterpillar cushion tires for two years on the heavy ice-cream truck pictured above, the J. C. Vander Bie Co. of St. Paul, Minn., is now specifying Caterpillars for all their motor equipment. In a recent letter, Mr. W. W. Dunn, Jr., the general manager of this concern, says:

"We are very pleased to advise that the Kelly-Springfield Caterpillar tires placed in service on one of our trucks two years ago as an experiment have proven entirely satisfactory and on the strength of the performance of these tires we have already specified Caterpillars on all new motor power equipment.

"The driver operating the truck equipped with Caterpillars has made the statement that he believes them fully equal to pneumatic non-skid tires in every respect."

No matter what kind of work a truck does, what kind of loads it carries or what kind of roads it has to travel, Caterpillars almost invariably give the owner complete satisfaction.

The reason is that they give him all the desirable qualities he can get in any other tire without any of the undesirable—and double the average mileage at about half the average cost per mile.

*Caterpillars are made in sizes suitable for  
trucks of every type and weight*

### Kelly-Springfield Tire Co.

GENERAL SALES DEPARTMENT

250 WEST 57th STREET

NEW YORK



## An American in Australia Points to Defects in Export Goods and to Possibilities of Trade.

Coolamon, N. S. W., Australia.

*Editor Manufacturers Record:*

Americans in other lands who sell general merchandise have a line of vision on results of the American factory which it will be well for all American manufacturers to recognize. However, they cannot get it from glittering generalities of the American abroad who is incorporated in the selling body of foreign countries, but, "concrete" criticism I think will do them more good.

In British dominions there are established demands for American goods. American axes, clocks, oils and automobiles, cloth and machinery compete successfully, only when they stand the test, the very bitter acid test, too, of other countries' representatives who seek to condemn the American article, if they can through merit get their own on the market. The price must be right, the article must be made from good materials and it must be made well and of the best and latest labor saving type.

I am going to ask the American manufacturer to do a little more careful inspecting of goods before they box for shipment. Inspectors who know and care are wanted to give pass-port only to those goods that have merit and will maintain the American's pride both at home and abroad.

The other day one of our best customers brought in a defective axe that should never have left the factory. It was poorly finished and the defect was glaring. Another customer brought in an axe that had in it a handle that hid its defect, in the eye of the axe. When the customer had the axe home he found it would not stay on the handle because of the defect which some careless American factory-hand had allowed to be used, when that handle should have been burned or turned to some other use. The man who bought it gave me a twit by saying "You Americans are out for the money," never knowing how it grieved in my very soul, for I wanted him to have the best from my land and I did not want to take him down or have any other one do so. I wanted his trade for all the years I live or may be here and know that I cannot have it if I sell him defective goods or try to uphold those who do.

One of the latest typewriters I had from America had

the wicked "habit" of snapping off the letters from the arms. It was defective tempering that caused it. It cost me many pounds (dollars) before I got the defects remedied. I am also an agent for the same make of machine and you will not wonder at my discomfort when I was demonstrating on the machine and two of the letters snapped with just ordinary use. A better workman and a better inspector would have cured the defect before the machine left the factory.

Our British cousins make a good article, and though they charge for it, they maintain a good overseas connection. One would be surprised to see how many articles come here from the British Isles, 16,000 miles, and how few of the same types from America only 6000 miles from Sydney.

I would like to see added to the American Cabinet a Secretary who would devote all his time to building up trade connection with all other lands and lead the way for more consumption of American goods.

We hear often in Australia, "Years ago the German traded here. He sold us good articles. He sold them cheap. Why cannot other nations sell as cheap and make as good goods?" If America is not wide-awake to seize the opportunity now calling from afar it may never come again.

Millions of wants remain unsatisfied, millions of demands may be stimulated, and to that end we hope to see general merchandise houses that make a specialty of supplying foreign trade, and all goods sent in one shipment and at the right prices, too, for honest made goods.

If I may be pardoned for referring to lines that are never at a discount because they are well made and well inspected, I will do so, not to advertise the articles, but to call attention to the perfection of those factories for inspecting carefully what is sent from home. Burrough's Adding Machines, Cash Register (National) and Toledo Computing Scales. There are others but these will illustrate that well made goods give satisfaction and bring more than shabbily made goods that have to be dumped.

Finally, Mr. Editor, ask the smallest and biggest American exporter and manufacturer to be patriotic, even in trade, and send away nothing that places an American at a discount. Send good goods and American makes will be at par and premium.

JOHN WHITE.

### The Oscar T. Smith Company

Manufacturing Bank Stationers

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President

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### OCEAN FREIGHT FORWARDERS SHIP BROKERS

Ward Line Service  
every ten days Orange, Texas,  
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Bookings to Other Foreign Countries.  
Prompt and Accurate Service.

**ORANGE FORWARDING CO. - Orange, Texas**





Harvester Road, St. Charles, Mo.  
"Tarvia-X," 1920



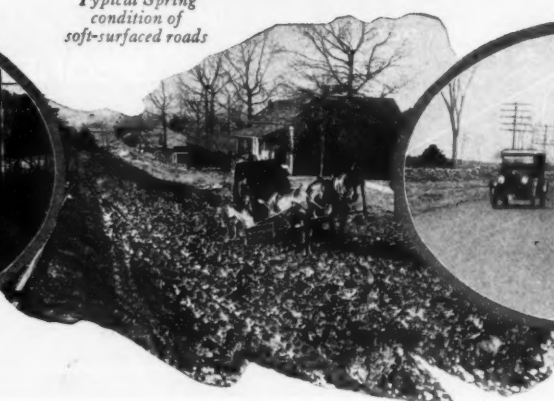
Typical Spring  
condition of  
soft-surfaced roads



Carthage-Antwerp Road, N. Y.  
Another Tarvia Highway



Glastonbury-Hartford Road,  
Glastonbury, Conn. "Tarvia-X," 1915



State Road at Kittery, Me.  
"Tarvia-X," 1912

## Tarvia transforms old fashioned mud roads into all-year mudless, dustless highways—

PRESIDENT HARDING recently declared that the problem of distribution "is one of the greatest economic problems, if not the greatest problem, of modern civilization."

When we realize that it costs from four to ten times as much to haul a ton of goods over bad roads as it does over good roads, we see at once how vital this road problem is to all of us.

The question no longer should be, "Shall we have good roads?" It should be, instead, "How quickly and how cheaply can we get good roads?"

The Road Commissioners of hundreds of towns and rural districts throughout the country have found from experience that Tarvia pavements are the most economical good roads it is possible to build.

In first cost a Tarvia road is only slightly more than plain waterbound macadam. The upkeep of Tarvia pavement is, all things considered, so much less than that of any other type of lasting road that the saving—over a short period of years—will offset the original cost of construction.

Properly looked after, there is no limit to the life of a Tarvia road. With regular, but inexpensive maintenance, it is actually improved by time and traffic. Its easy-traction surface is smooth, firm, dustless and mudless all the year round—year after year.

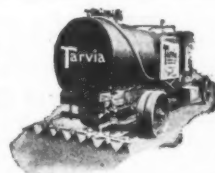
Tarvia also offers an economical means of resurfacing old worn-out macadam, and of repairing and maintaining improved streets and highways of every kind. There is a grade of Tarvia for each of these purposes.

# Tarvia

**For Road Construction  
Repair and Maintenance**

### Special Service Department

This company has a corp of trained engineers and chemists who have given years of study to modern road problems. The advice of these men may be had for the asking by anyone interested. If you will write to the nearest office regarding road problems and conditions in your vicinity, the matter will be given prompt attention.



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Pittsburgh  
Salt Lake City  
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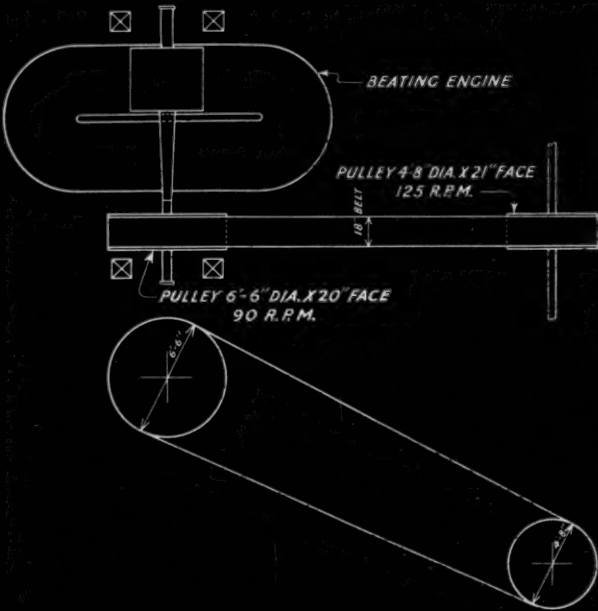
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Vancouver

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Halifax, N. S.



BEATING ENGINE

PULLEY 4-8" DIA X 21" FACE  
125 R.P.M.

18" BELT

PULLEY 6-6" DIA. X 20" FACE  
90 R.P.M.

**SPECIFIED:-GOODYEAR BELT**

TYPICAL BEATER DRIVE  
IN THE CROCKER DIVISION MILL  
OF THE AMERICAN WRITING PAPER COMPANY  
HOLYOKE, MASSACHUSETTS

18"-6 PLY GOODYEAR BLUE STREAK BELT  
DRIVING PULLEY, 4-8" X 21" FACE, 125 R.P.M.  
DRIVEN PULLEY, 6-6" X 20" FACE, 90 R.P.M.  
MAXIMUM H.P.-50

Blueprint sketch of Goodyear-belted beater drive in the Crocker Division Mill of the American Writing Paper Company, Holyoke, Mass., and insert photograph of the Crocker Division Mill

Copyright 1922, by The Goodyear Tire & Rubber Co., Inc.

## Twenty-six Eagle-A Mills and the G. T. M.

The American Writing Paper Company, of Holyoke, Massachusetts, comprises 26 mills throughout the country, making the nationally celebrated Eagle-A Quality-Standards of printing papers. The belting equipment and requirements of their every plant, involving hundreds of drives, have been analyzed in the past two years by a G. T. M.—Goodyear Technical Man.

"This analysis of the belt equipment in each of our 26 plants is the most comprehensive and valuable work of its kind that has ever come to my attention," writes Mr. J. Moles, Chief Engineer of the American Writing Paper Company. "The actual G. T. M. work required months, and the final report, together with recommendations submitted by the Goodyear Company, comprises several volumes."

A great deal of the equipment installed on the basis of this expert analysis is Goodyear Blue Streak Belting. This is particularly true of the equipment of the great beater drives which transmit the power from the main shaft to the great revolving cylinders where numerous knives beat rags into stock for the paper machines.

Two of these Goodyear Blue Streak Belts, 18-inch, 6-ply, were installed in the Crocker

Division in Holyoke, in June, 1920. These two Goodyears have been in constant operation for two years now, and have never been touched. They never required taking-up or repairing. Mr. Moles says they are as good today as the day they were installed, though they have been working on this heavy drive for 24 hours a day, six days a week.

Hundreds of other Goodyear Belts in American Writing Paper plants are giving correspondingly faithful, trouble-free and long-wearing service. Their efficient and economical performance is a tribute to the quality built into them and to the correctness and exactness with which they are specified to their jobs.

This is a splendid example of the work of the G. T. M., the working of the Goodyear Plant Analysis Method, and the performance of Goodyear Belts. You can have a similar survey made of your transmission or conveying problem. There is a G. T. M. in your neighborhood, and you may rely on his recommendations and on the quality of Goodyear Belts. For further information about the Goodyear Analysis Plan, write to Goodyear, Akron, Ohio, or Los Angeles, California.

GOODYEAR

## First National Bank

RICHMOND, VIRGINIA  
Capital and Surplus, \$3,000,000.  
J. M. MILLER, JR., President.  
W. M. ADDISON, Vice-President.  
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ALEX. F. RYLAND, Cashier.

## MARYLAND TRUST COMPANY

BALTIMORE

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Correspondence and Interviews Invited

CAPITAL, \$1,000,000

## We Buy Bonds

City, County, School and Road, from  
Municipalities and Contractors

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THE PROVIDENT SAVINGS BANK & TRUST CO.  
CINCINNATI OHIO

## WE BUY MUNICIPAL BONDS

We are interested in the purchase of  
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school, county, drainage and levee bonds.

M. W. ELKINS & CO.

Southern Trust Bldg.

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## NOTICE TO CONTRACTORS

We want to buy bonds issued by cities, towns,  
counties, school, road or drainage districts that you  
may be able to take in exchange for work. Address  
us at our nearest office.

W. L. SLAYTON & CO.

New Orleans, La. Toledo, Ohio Tampa, Fla.  
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## WE BUY

Municipal Bonds

THE ROSENSTIEL-ELLIS COMPANY

FIRST NATIONAL BANK BUILDING CINCINNATI, O.

## Contractors and Municipal Officials

We are always in the market  
TO PURCHASE

Good municipal bonds issued by cities, towns, counties  
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## HAVE YOU BONDS FOR SALE?

WE BUY ALL CLASSES OF MUNICIPAL BONDS,  
INCLUDING CITY, COUNTY, SCHOOL,  
PAVING, ROAD AND DRAINAGE

*The Hanchett Bond Co. Inc.*

39 SOUTH LA SALLE ST., CHICAGO

*Sell us your  
Municipal Bonds*

## THE TITLE GUARANTEE & TRUST CO.

Capital and Surplus - - - - - \$584,000.00

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Cincinnati, Ohio

## CORPORATE FINANCING

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## WE BUY MUNICIPAL BONDS

Write us if your community is con-  
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bonds to sell.

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309 Mercantile Library Bldg., Cincinnati, Ohio

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**BUY** County  
City  
School **BONDS**

Write us if you have any for sale.

## JOHN NUVEEN & CO.

First National Bank Building

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We purchase SCHOOL, COUNTY and MUNICIPAL  
BONDS. Southern Municipal Bonds a Specialty.

Write us if you have bonds for sale

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Auditing, Cost and Accounting Systems,  
and Federal Tax Service.

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Charlotte, N. C.



## 17 STORY LIFE INSURANCE BUILDING.



To be erected at Greensboro, N. C., for Jefferson Standard Life Insurance Co., at cost of \$1,300,000; 115x187 ft.; 17 stories; steel frame; composition roof; cement, marble and tile floors; vapor system of heat (contract not let); General Electric Co. installation of lighting system; Otis elevators; Charles C. Hartmann, Archt., Greensboro; George A. Fuller Co., Contr., Washington, D. C.; Virginia Bridge & Iron Co., Roanoke, Va., steel frame; Federal Terra Cotta Co., New York, terra cotta.

### Bauxite Production in 1921.

The production of bauxite in the United States in 1921 was 139,550 long tons, valued at \$889,800, according to the United States Geological Survey. This is not much more than one-fourth of the production in 1920. This great decrease was due to lack of demand from all consuming industries. The production from the Arkansas field was only 124,850 tons in 1921, and this field has produced as much as 570,000 tons in a year. The Eastern States produced only 14,700 tons as compared with a maximum production of 62,100 tons. Georgia produced 10,174 tons, and Alabama and Tennessee each contributed a small tonnage to the Eastern States total.

### A Folder for Summer Tourists.

A richly illustrated folder with cover in colors and entitled "The Land of the Sky" has been issued by the Southern Railway Co. concerning the beauties of the mountains of the western part of North Carolina. In its forty pages are pictured some of the finest views to be seen in these wonderful uplands of the Old North State, scenes of which one never grows weary. Other illustrations show several of the prominent hotels and inns of the region and there is also much detailed information of value for tourists.

## Advocates more Efficient Method of Gasoline Recovery Which Would Add 170,000,000 Gallons Annually to Country's Output.

The Bureau of Mines advances the suggestion that by the more complete condensation of still vapors at petroleum refineries, 170,000,000 gallons of gasoline may be added yearly to the national output. As the result of a detailed investigation, D. B. Dow, petroleum engineer of the bureau, estimates that 50,000,000 gallons of gasoline were recovered from uncondensed still vapors at refineries in 1921. Application of the system to all refineries would give a possible gasoline recovery by this method of 170,000,000 gallons yearly.

The calculations of the Bureau are based on results obtained in refineries whose general methods are more efficient than those employed in the hundreds of smaller skimming plants that have no recovery systems. It is assumed that in the less efficient skimming plants, located in sections where the supply of cold water, so essential for condenser use, is scarce, greater recoveries could be made than in the large refineries studied. This should be especially true of Oklahoma, north Texas, and Louisiana skimming plants, where summer temperatures are high and where cold water is scarce. A survey of these plants, it is believed, would show that their losses in uncondensed still vapors would be much higher than in the plants where the studies of the Bureau of Mines were conducted.

The magnitude of the loss from non-condensation of these vapors has been realized only by few refiners, judging from the number of plants that have recovery systems. The 13 refineries studied by the Bureau are obtaining 128,651 gallons of gasoline daily from uncondensed still vapors. These plants are situated in the various refining centers, other than the Pacific Coast, and are running crude representative of all the producing fields east of the Rocky Mountains. In addition, several are running Mexican crude.

A detailed report of Mr. Dow's investigations is given in Serial 2344, "Recovery of Gasoline From Uncondensed Still Vapors," which may be obtained from the Bureau of Mines, Washington, D. C.

## Production of Aluminum and Alumina Chemicals in 1921.

The value of the aluminum produced in the United States in 1921 was \$10,906,000, as compared with \$41,375,000 in 1920, according to the United States Geological Survey. This great decrease was due not only to a decrease in the price of the metal but to the large curtailment of its use in the automotive industries. Imported aluminum could be bought throughout the year at 2 to 3 cents below the prices quoted for domestic metal of the same grade.

Alumina chemicals made from bauxite and other clay to the amount of 184,820 short tons, valued at \$7,546,000, were marketed in the United States in 1921. These chemicals were made from 64,380 tons of bauxite and 9830 tons of high-alumina clay, having a total value at the chemical works of \$1,028,800.

### Huge Convention Travel.

W. S. Keenan, general passenger agent of the Santa Fe Lines in Texas, according to the Galveston News, has been notified that the handling of excursionists to the Shriners' and the Rotary clubs' conventions at Los Angeles and San Francisco this month will require forty five special trains and that the bill for railroad and sleeping car tickets will aggregate about \$1,000,000. The excursionists will go via the Grand Canyon National Park and on a single day either going or returning, there will be 126 special Pullman cars parked at the Park in addition to the regular travel. The Harvey restaurants will serve more than 100,000 meals.